### INDEPENDENT ORBITER ASSESSMENT

ASSESSMENT OF THE COMMUNICATION AND TRACKING SUBSYSTEM VOLUME 2 OF 3

18 MARCH 1988

2011年 人工事業所のはなか。

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8002F 1.2.3		NASA DATA: BASELINE [ ] NEW [ X ]					
	COMM AND TRACT 8002 VIDEO SWITCHIN							
LEAD ANALYST:								
ASSESSMENT:								
CRITICAL: FLIGH		DANCY SCI	REENS	CIL ITEM				
HDW/FU		В	С	2 2 22-2				
NASA [ 3 /3 IOA [ 2 /1R	] [ ] ] ]	[ P]	[ ] [ P ]	[ ] * [ x ]				
COMPARE [ N /N	] [N]	[ N ]	[ и ]	[ N ]				
RECOMMENDATIONS:	(If differe	nt from 1	NASA)					
[ /	] [ ]	[ ]	[ ] (	[ ] ADD/DELETE)				
* CIL RETENTION	RATIONALE: (If	applical	ble) ADEQUATE INADEQUATE					
REMARKS:	•							
FAILS TO SWITCH :	RESULTS IN LOS S. ONLY THE W	S OF OUT! ORST CAS!	PUT. LOSS OF E FUNCTION WA	'OUTPUT COVERS AS ANALYSED.				

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-800	02G		BASELINE NEW	[ x ]
SUBSYSTEM: MDAC ID: ITEM:	COMM AND 3 8002 VIDEO SWIT		IT		
LEAD ANALYST:	W.C. LONG				
ASSESSMENT:					
CRITICAL		EDUNDANCY	SCREENS		CIL ITEM
FLIGH HDW/FU		В	_	<b>c</b>	IIEM
NASA [ 3 /3 IOA [ 2 /1R	] [ ] [ P	] [ ] [ P	] [	P ]	[ x ] *
COMPARE [ N /N	) [ N	] [ N	] [ ]	N ]	[ N ]
RECOMMENDATIONS:	(If dif	ferent fr	om NASA)		
[ /	] [	] [	] [	] (AI	[ ] DD/DELETE)
* CIL RETENTION	RATIONALE:	(If appl	į	ADEQUATE ADEQUATE	[ X ]
REMARKS: FAILS TO SWITCH ALL VSU FUNCTION	RESULTS IN	LOSS OF	OUTPUT.	LOSS OF C	OUTPUT COVERS

ASSESSMENT DATE: 3/05/88 ASSESSMENT ID: COMTRK- NASA FMEA #: 1.2.5						02H							ASA D BASEL		[	x	]			
SUBSYSTEM: COMM AN MDAC ID: 8002 ITEM: VIDEO S								U	נאו	T										
LEAD ANALYST: W.C. LC					NG															
ASSESSME	ASSESSMENT:																			
	CRITICALITY REDUNDANCY SCREENS CIL																			
FLIGHT HDW/FUNC						A	A B C						LEF	•						
NASA IOA		3 2	/3 /1R	]	[	P	]		[ [	P	]	[	P	]		[	x	]	*	
COMPARE	[	N	/N	]	ĺ	N	]		[	N	]	[	N	]		[	N	]		
RECOMMEN	[DA]	ΓI	ONS:	(	If d	lif	fer	ent	f	ro	m	NASA	)							
	[ / ] [ ] [ ] [ ] (ADD/DELETE)																			
	CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]																			
FAILS TO	REMARKS: FAILS TO SWITCH RESULTS IN LOSS OF OUTPUT. LOSS OF OUTPUT COVERS ALL VSU FUNCTIONS. ONLY THE WORST CASE FUNCTION WAS ANALYSED.																			

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8002 1.2.6	ı	NASA DATA: BASELINE NEW	
MDAC ID:	COMM AND TR 8002 VIDEO SWITC			
LEAD ANALYST:	W.C. LONG			
ASSESSMENT:				
CRITICALI FLIGHT		UNDANCY SCREENS	3	CIL
HDW/FU		В	С	
NASA [ 3 /3 IOA [ 2 /1R	] [ p ]	[ ] [ [ P ] [	P ]	[ x ] *
COMPARE [ N /N	] [ N ]	[ N ] [	n ]	[ N ]
RECOMMENDATIONS:	(If diffe	rent from NASA)		
[ /	] [ ]	[ ] [	] (AD	[ ] D/DELETE)
* CIL RETENTION I	RATIONALE: (		ADEQUATE NADEQUATE	[ X ]
REMARKS: FAILS TO SWITCH I ALL VSU FUNCTIONS			LOSS OF C	UTPUT COVERS

ASSESSMENT DATE: 3/0 ASSESSMENT ID: COI NASA FMEA #: 1.3				RK-80	02J		NASA DATA: BASELINE [ ] NEW [ X ]					
MDAC ID: 8002 ITEM: VIDE				OMM AND TRACK 002 IDEO SWITCHING UNIT								
LEAD ANALYST: W				V.C. LONG								
ASSESSMENT:												
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM												
		UNC	A		В		С	IIEM				
NASA IOA	[	3 /3 2 /1	] R ]	[ [ P	]	[ [ P	] [	p ]	[ x ] *			
COMPARE	[	n /n	]	[ N	]	[ 1	] [	N ]	[ N ]			
RECOMMEN	DAT	IONS	: (I	f dif	fere	nt fro	m NASA	)				
	[ / ] [ ] [ ] (ADD/DELETE)											
	* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]											
REMARKS: FAILS TO ALL VSU	REMARKS: FAILS TO SWITCH RESULTS IN LOSS OF OUTPUT. LOSS OF OUTPUT COVERS ALL VSU FUNCTIONS. ONLY THE WORST CASE FUNCTION WAS ANALYSED.											

ASSESSMENT DATE ASSESSMENT ID: NASA FMEA #:	COMTRK-	8002K		BASELINE NEW	[ x ]
SUBSYSTEM: MDAC ID: ITEM:	8002	D TRACK WITCHING U			
LEAD ANALYST:	W.C. LO	NG			
ASSESSMENT:					
CRITICA FLIG		REDUNDANC	Y SCREENS	;	CIL ITEM
	UNC	A	В	C	IILM
NASA [ 3 /3 IOA [ 2 /1	R ] [	P ] [	P ] [	P ]	[ x ] *
COMPARE [ N /N	] [	и ј [	и ј [	<b>N</b> ]	[и]
RECOMMENDATIONS	: (If d	ifferent f	rom NASA)		
[ /	] [	] [	] [	] (AI	[ ] DD/DELETE)
* CIL RETENTION	RATIONAL	E: (If app		ADEQUATE ADEQUATE	
REMARKS: FAILS TO SWITCH	ביין דיין דיין דיין דיין דיין דיין דיין	TN TOSS OF			1 1-1 <del>4</del> 1 1-1-1
ALL VSU FUNCTION					

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:		NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8002 VIDEO SWITCHING	UNIT	
LEAD ANALYST:	W.C. LONG		
ASSESSMENT:			
CRITICAL FLIGH	CIL ITEM		
HDW/FU		ВС	
NASA [ 3 /3 IOA [ 2 /1R	] [ ]   ] [ P ]	[ ] [ ] [ P ] [ P ]	[ x ] *
COMPARE [ N /N	] [N]	[и] [и]	[ N ]
RECOMMENDATIONS:	(If different	from NASA)	
[ /	] [ ]	[ ] [ ] (A)	[ ] DD/DELETE)
* CIL RETENTION	RATIONALE: (If a	pplicable) ADEQUATE INADEQUATE	
REMARKS: FAILS TO SWITCH	RESULTS IN LOSS (	OF OUTPUT. LOSS OF	OUTPUT COVERS

ASSESSMENT DATE: 3/05/88 ASSESSMENT ID: COMTRK-8 NASA FMEA #: 1.2.10						300	)2M						ASA DATA BASELINE NEW	[	1 21	]	
SUBSYSTEM: COMM AND MDAC ID: 8002 ITEM: VIDEO SW								; t	נאנ	T							
LEAD ANALYST: W.C. LONG																	
ASSESSME	ASSESSMENT:																
	CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM																
	1		LIGHT W/FUI			A			В			С		7.7	. E.P.	1	
NASA IOA	[	3 2	/3 /1R	]	]	P	]	]	P	]	[	P	]	[	X	]	*
COMPARE	[	N	/N	]	[	N	]	[	N	]	[	N	]	[	N	]	
RECOMMEN	IDA'	ric	ons:	(If	d:	ifí	erent	: f	rc	om N2	ASA)	)					
- 	[		/	]	[		]	[		]	[		] (AI	[ DD/	'DE	] LE	TE)
* CIL RE	CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]																

ASSESSMENT DA ASSESSMENT ID NASA FMEA #:	: COMTR	K-8002N		NASA DATA BASELINE NEW					
SUBSYSTEM: MDAC ID: ITEM:	8002	OMM AND TRACK 002 IDEO SWITCHING UNIT							
LEAD ANALYST:	W.C.	.c. long							
ASSESSMENT:									
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM									
	/FUNC	A	В	С					
NASA [ 3 IOA [ 2	/3 ] /1R ]	[ ] [ P ]	[ ] [ P ]	[ ] [ P ]	[ x ] *				
COMPARE [ N	/N ]	[ N ]	[ N ]	[ N ]	[и]				
RECOMMENDATIO	ons: (If	differen	nt from NAS	SA)					
[	/ ]	[ ]	[ ]	[ ] (A	[ ] DD/DELETE)				
* CIL RETENT	CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]								
REMARKS: FAILS TO SWIT ALL VSU FUNCT		S IN LOSS VLY THE WO	OF OUTPUT DRST CASE I	r. LOSS OF FUNCTION WAS	OUTPUT COVERS ANALYSED.				

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-80	020	NASA DATA: BASELINE [ ] NEW [ X ]						
SUBSYSTEM: MDAC ID: ITEM:	8002	OMM AND TRACK 1002 IDEO SWITCHING UNIT							
LEAD ANALYST:	W.C. LONG								
ASSESSMENT:									
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM									
HDW/FU		В	С		11111				
NASA [ 3 /3 IOA [ 2 /1R	] [ P	] [ ] [ P	] [ ] [ P	]	[ x ] *				
COMPARE [ N /N	] [ N	] [ N	] [ N	]	[ N ]				
RECOMMENDATIONS:	(If dif:	ferent fro	om NASA)						
[ /	] [	] [	] [	] (AD	[ ] D/DELETE)				
* CIL RETENTION	CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]								
REMARKS: FAILS TO SWITCH ALL VSU FUNCTION		LOSS OF C							

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-800 1.2.13	02P		NASA DATA BASELINE NEW						
SUBSYSTEM: MDAC ID: ITEM:	COMM AND 3 8002 VIDEO SWIS		NIT		**					
LEAD ANALYST:										
ASSESSMENT:										
CRITICALITY REDUNDANCY SCREENS CIL										
FLIGH HDW/FU			В	С	TIEM					
NASA [ 3 /3 IOA [ 2 /1R	] [ ] [ P	] [	] [ P ] [	P ]	[ x ] *					
COMPARE [ N /N	] [ N	] [	и] [	N ]	[ N ]					
RECOMMENDATIONS:	(If dif	ferent f	rom NASA)	)						
[ /	] [	] [	] [	] (A)	[ ] DD/DELETE)					
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]										
REMARKS: FAILS TO SWITCH					OUTPUT COVERS					
ALL VSU FUNCTION	S. ONLY T	HE WORST	CASE FUI	NCTION WAS	ANALYSED.					

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:		02Q		NASA DATA: BASELINE NEW						
SUBSYSTEM: MDAC ID: ITEM:	COMM AND 3 8002 VIDEO SWIT		INIT							
LEAD ANALYST:	W.C. LONG									
ASSESSMENT:										
CRITICAL: FLIGHT		EDUNDANC	Y SCREEN	s	CIL ITEM					
HDW/FUI			В	С	11111					
NASA [ 3 /3 IOA [ 2 /1R	] [ P	] [	P ] [	P ]	[					
COMPARE [ N /N	] [ N	] [	и][	N ]	[и]					
RECOMMENDATIONS:	(If dif	ferent f	rom NASA	)						
[ /	] [	1 [	] [	] (AI	[ ] DD/DELETE)					
* CIL RETENTION 1	CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]									
REMARKS: FAILS TO SWITCH I ALL VSU FUNCTIONS	RESULTS IN S. ONLY TI	LOSS OF HE WORST	OUTPUT.	LOSS OF	OUTPUT COVERS					

ASSESSMENT DATE: 3/05/88 ASSESSMENT ID: COMTRK-8002R NASA FMEA #: 1.2.15								1	NASA DATA: BASELINE [ ] NEW [ X ]													
SUBSYSTE MDAC ID: ITEM:	M:			800	COMM AND TRACK 3002 VIDEO SWITCHING						INI	T										
LEAD ANA	LYS	ST:	:	w.c	.C. LONG																	
ASSESSME	NT:	:																				
CRITICALITY REDUNDANCY SCREENS CIL																						
FLIGHT HDW/FUNC															С		IIIM					
NASA IOA	[	3 2	/3 /1R	]		]	P	]		[ [	P	]		[	P	]	[	x	]	*		
COMPARE	[	N	/N	]		l	N	]		[	N	]		[	N	]	[	N	]			
RECOMMEN	DA!	ri	ons:		(If	d:	if:	fer	ent	. 1	ţr.	om l	NAS	A)								
	[		/	]		[		]		[		]		[		] (2		/DI		ETE)		
* CIL RE	TEI	NT:	ION :	RAT	IONA	LI	3:	(I	fa	p	<b>91</b> i	ical				DEQUATE DEQUATE		x	]			
REMARKS: FAILS TO	. ci	ידע	тсц .	DECI	ידייכ		ΓN	τ.σ	226	Ωī	F (	יייזי	ייווס		1	OSS OF	ינוס	ופיד	ידין	COVERS		
ALL VSU						Y	T	HE	WOR	S'	r (	CAS	E F	UN	TC:	CION WAS	A	NA]	LYS	SED.		

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-80	025		NASA DATA: BASELINE NEW							
	COMM AND 8002 VIDEO SWI		UNIT								
LEAD ANALYST:	W.C. LONG	<del>,</del>									
ASSESSMENT:											
CRITICAL	CIL ITEM										
FLIGH HDW/FU			В	C MARKET SEC							
NASA [ 3 /3 IOA [ 2 /1R	] [ F	] [	P ] [	P ]	[ x ] *						
COMPARE [ N /N	] [ N	] [	и ] [	<b>n</b> ]	[ N ]						
RECOMMENDATIONS:	(If dif	ferent i	from NASA	)							
[ /	] [	] [	] [	] (AI	[ ] DD/DELETE)						
* CIL RETENTION	RATIONALE:	(If app		ADEQUATE NADEQUATE	[ X ]						
REMARKS: FAILS TO SWITCH RESULTS IN LOSS OF OUTPUT. LOSS OF OUTPUT COVERS ALL VSU FUNCTIONS. ONLY THE WORST CASE FUNCTION WAS ANALYSED.											

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	•	2T	BASELINE NEW	·				
SUBSYSTEM: MDAC ID: ITEM:	COMM AND T 8002 VIDEO SWIT	RACK CHING UNIT						
LEAD ANALYST:	W.C. LONG							
ASSESSMENT:								
CRITICAL FLIGH		DUNDANCY SCREE	NS	CIL ITEM				
HDW/FU	NC A	В	С					
NASA [ 3 /3 IOA [ 2 /1R	] [ ] [ P	] [ ] ] [ P ]	[ ] [ P ]	[ X ]				
COMPARE [ N /N	] [ N	] [N]	[и]	[ N ]				
RECOMMENDATIONS:	(If diff	erent from NAS	A)					
[ /	] [	] [ -]	[ ] (A)	[ ] DD/DELETE)				
* CIL RETENTION	RATIONALE:		ADEQUATE					
REMARKS:	DEGULEG IN		INADEQUATE	•				
FAILS TO SWITCH ALL VSU FUNCTION	RESULTS IN	LOSS OF COTPOT HE WORST CASE F	UNCTION WAS	ANALYSED.				

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8002	U	BASELINE NEW	[ x ]								
	COMM AND TR 8002 VIDEO SWITC		and the second									
LEAD ANALYST:												
ASSESSMENT:												
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM												
HDW/FUI		В	C									
NASA [ 3 /3 IOA [ 2 /1R	] [ p ]	[ ] [ P ]	[ ] [ P ]	[ x ] *								
COMPARE [ N /N	] [ N ]	[ и ]	[ N ]	[ N ]								
RECOMMENDATIONS:	(If diffe	erent from NAS	A)									
[ /	] [ ]	[ ]	[ ] (AI	[ ] DD/DELETE)								
* CIL RETENTION 1	RATIONALE: (		) ADEQUATE INADEQUATE	[ X ]								
REMARKS: FAILS TO SWITCH 1												
ALL VSU FUNCTIONS	s. ONLY THE	WORST CASE F	UNCTION WAS	ANALYSED.								

ASSESSME ASSESSME NASA FME	NT ]	D:	3/05/ COMTE 1.2.2	K-80	02V				TA: NE [ ] EW [ X ]	[ ]				
SUBSYSTE MDAC ID:	M:		COMM 8002 VIDEO		¥									
LEAD ANA	LYS	r:	W.C.	LONG										
ASSESSME	NT:													
		rical		R	EDUNI	DANCY	SCRE	EENS		CIL ITEM				
	_	FLIGH DW/FU		A		В		С		****				
NASA IOA	[ ;	3 /3 2 /1R	]	[ [ P	]	[ [ P	]	[ [ P	]	[ x ] *				
COMPARE	[ ]	n /n	]	[ и	]	[ N	]	[ N	]	[ N ]				
RECOMMEN	DAT:	ions:	(I:	f dif	fere	nt fro	om NA	ASA)						
	[	/	]	[	]	[	]	C	1	[ ] (ADD/DELETE)	•			
* CIL RE	TEN	TION	RATIO	NALE:	(If	appl:	icab	A	DEQUAT DEQUAT	•				
REMARKS:	) SW	ITCH	RESUL	TS IN	LOS	S OF (	OUTPU	UT. FUNC	LOSS C	OF OUTPUT COVERS	5			

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8003		BASELINE	; , , , , , , , , , , , , , , , , , , ,									
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8003 VIDEO SWITCHING U	JNIT .	±12 1	e e									
LEAD ANALYST:													
ASSESSMENT:													
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM													
HDW/FUI		В	c	TICM									
NASA [ 2 /2 IOA [ 2 /1R	] [ ] [ ] [ P ] [	] [ p ] [	p ]	[ X ] * [ X ]									
COMPARE [ /N	] [N][	и ] [	и ј	[ ]									
RECOMMENDATIONS:	(If different i	from NASA)											
[ 2 /1R	] [P] [	P ] [	P ] (AI	[ .] DD/DELETE)									
* CIL RETENTION I	RATIONALE: (If app	•											
			ADEQUATE ADEQUATE										
ALL CAPABILITY TO AND MONITORING PA VEHICLE AND CREWA WINDOW VIEWING, I	O RESULT IN LOSS OF PERFORM CCTV FUNCTURED IN LATCHER CCTV REDUCED AND COAS FOR COAS	OF CCTV AN ICTION COURS RESULTIOUNDANCY EREW VISUA	D MISSION. LD PREVENT NG IN POSS XISTS VIA L INSPECTI	LOSS OF TRMS STOW OF CREW									

DAT	E:		ENT ID			MTRK-8003A							BASELINE [ ] NEW [ X ]						
		SUBSYSTE MDAC ID:			COMM 8003 VIDEO					נאנ	T								
		LEAD ANA	ALYST:		W.C.	LOI	1G												
		ASSESSME	ENT:																
				IGH'					DANG	CY B	SCRE	ENS	C			CI IT			
		NASA IOA	[ 2 /	/2 /1R	]	[	P	]	[	p	]	[	p	]		[	X X	] * ]	
		COMPARE	[ .	/N	]	[	N	]	[	N	]	[	N	]		[		]	
		RECOMMEN	OITAGN	ns:	(11	f d	if	fere	nt :	fro	om NA	SA)	)						
		•	[ 2	/1R	1	[	P	J	[	P	]	[	P	]	(AD		DE	] LETE	)
		* CIL RI	ETENTI	ON I	RATIO	NAL	E:	(If	ap	pl:	icabl			DEQUA					
		REMARKS: LOSS OF ALL CAPP AND MONIVEHICLE WINDOW V JETTISON	VCU C ABILIT ITORIN AND C VIEWIN	Y TO	O PERI /L BAY . UNI EVA AI	FOR Y D LIK ND	M ( 001 E ( CO)	CCTV R LA' CCTV AS F	FUI TCH RE OR	NC' ES DUI CRI	rion Resu Ndanc Ew Vi	COULT I	ND ULI INC EX:	MISS PRE IN STS INSP	ION. VENT POSS VIA ECTI	I R	LO MS LE EW	SS O STO LOS	W S OF MS

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8 1.2.21	B003B		NASA DATA: BASELINE [ ] NEW [ X ]							
SUBSYSTEM: MDAC ID: ITEM:	COMM AND 8003 VIDEO SV	D TRACK WITCHING	UNIT								
LEAD ANALYST:	W.C. LOI	NG									
ASSESSMENT:											
CRITICALITY REDUNDANCY SCREENS CIL											
FLIGH HDW/FU		A	В	С	ITEM						
NASA [ 2 /2 IOA [ 2 /1R	] [	p ]	] [ ] ] [q]	p ]	[ X ] *						
COMPARE [ /N	] [	и ј	[и]	N ]	[ ]						
RECOMMENDATIONS:	(If d	ifferent	from NASA	)							
[ 2 /1R	] [	P ]	[ P ] [	P ] (AI	[ ] DD/DELETE)						
* CIL RETENTION	RATIONALI	E: (If a		ADEQUATE NADEQUATE							
REMARKS:			<b>-</b>		į j						
LOSS OF VCU COUL	D RESULT	IN LOSS	OF CCTV A	ND MISSION	LOSS OF						
ALL CAPABILITY T											
	ND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF EHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXISTS VIA CREW										
WINDOW VIEWING, JETTISON TO ALLO											

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-800	NASA DATA: 8003C BASELINE [ ] NEW [ X ]									
	COMM AND TO 8003 VIDEO SWIT										
LEAD ANALYST:	W.C. LONG										
ASSESSMENT:											
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM											
HDW/FU		В	С	IIEM							
NASA [ 2 /2 IOA [ 2 /1R	[ P	] [ ] ] [ p ]	[ ] [ p ]	[ X ] *							
COMPARE [ /N	] [ N	] [N]	[и]	[ ]							
RECOMMENDATIONS:	(If diff	erent from NAS	A)								
[ 2 /1F	[ P	] . [ P ]	[ P ] (AI	[ DD/DELETE)							
* CIL RETENTION	RATIONALE:		) ADEQUATE INADEQUATE								
REMARKS: LOSS OF VCU COULD RESULT IN LOSS OF CCTV AND MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF											

VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXISTS VIA CREW

WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-	8003D		NASA DATA: BASELINE NEW							
SUBSYSTEM: MDAC ID: ITEM:	8003	D TRACK WITCHING 1	UNIT								
LEAD ANALYST:	W.C. LO	NG									
ASSESSMENT:											
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM											
	NC	A	В	<b>C</b>	11111						
NASA [ 2 /2 IOA [ 2 /1R	] [	P ] [	] [ g ]	] p ]	[ X ] *						
COMPARE [ /N	] [	и ] [	и ] [	и ј	[ ]						
RECOMMENDATIONS:	(If d	ifferent	from NASA)								
[ 2 /1R	].[	P ] [	P ] [	P ] (AI	[ ] DD/DELETE)						
* CIL RETENTION	RATIONAL	E: (If ap)	plicable) IN	ADEQUATE ADEQUATE	[ X ]						
REMARKS:											
LOSS OF VCU COUL	D RESULT	IN LOSS ( III VTV FIII	OF CCTV AN	D MISSION.	. LOSS OF T RMS STOW						
AND MONITORING P	ND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF										
VEHICLE AND CREW	. UNLIK	E CCTV RE	DUNDANCY E	XISTS VIA	CREW						
WINDOW VIEWING, JETTISON TO ALLO	EVA AND ( W P/L BA)	Y DOOR CL	OSURE. WO	RST CASE	CONDITION.						

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8003E 1.2.1		NASA DATA: BASELINE [ ] NEW [ X ]											
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACE 8003 VIDEO SWITCHIN													
LEAD ANALYST:	W.C. LONG	W.C. LONG												
ASSESSMENT:														
CRITICAL FLIGH	ITY REDUNI	DANCY SCRE	ENS	CIL ITEM										
HDW/FU		В	С	***										
NASA [ 3 /2R IOA [ 2 /1R	[ P ] [ P ]	[ P ] [ P ]	[ P ] [ P ]	[ ] * [ X ]										
COMPARE [ N /N	] [ ]	[ ]	[ ]	[ N ]										
RECOMMENDATIONS:	(If differe	nt from NA	SA)											
[ /	] [ ]	,[ ],	[ ] (2	[ ] ADD/DELETE)										
* CIL RETENTION	RATIONALE: (If	applicabl	e) ADEQUATE INADEQUATE	[ X ]										
REMARKS: INTERNAL ELECTRI OUTPUT.	CAL OPEN/SHORT	CIRCUIT C	OULD RESULT	IN LOSS OF										
LOSS OF VCU COUL ALL CAPABILITY T AND MONITORING P VEHICLE AND CREW WINDOW VIEWING, JETTISON TO ALLO	O PERFORM CCTV  /L BAY DOOR LA'  . UNLIKE CCTV EVA AND COAS F	FUNCTION TCHES RESU REDUNDANC OR CREW VI	COULD PREVE LTING IN POS Y EXISTS VI SUAL INSPECT	NT RMS STOW SSIBLE LOSS OF A CREW FION AND RMS										

NASA FREA										•	TA: NE IEW	[	x	] * ***	F						
SUBSYSTEM MDAC ID:	<b>1</b> :				COMM 2 8003 VIDEO	and sw	T TT	RACK CHIN	G	UN:	ΙΤ			, *	nak Milania					# - T-	
LEAD ANAI	LYS'	T:			W.C. 1	LON	G							-	. 1.						
ASSESSMEN	ASSESSMENT:																				
C	CRI	TI FL	CA	LI	TY		RE	DUND	AN	CY	S	CREE	ENS	3				L EM			
					c		A			В	В			C				Liri			
NASA IOA	[	3 2	/2 /1	R R	] ]	[	P P	]	[	P p	]		[	P p	]		[	X	] *	•	
COMPARE	[ ]	N,	/N		1	[		]	[		]		[		]		[	N	]		
RECOMMENI	TAC	10	ns	:	(If	di	ff	eren	t	fr	om	NAS	SA)		-						
	[		/		]	Ĺ		]	[		]		[		3	(AD	[ D/	DE	] LET	E)	
* CIL RET	ren'	TI	ON	R	ATION	ALE	:	(If	ap	pl:	ica	able	) II	AI IAI	DEQUAT	'E 'E	[	X	]		
REMARKS: INTERNAL OUTPUT.	EL	EC	TR	IC	AL OP	EN/	SH	ORT	CI	RCI	UI:	r cc	UI	ĽD	RESUL	πі	N	LO	SS	OF	
LOSS OF VALL CAPAI AND MONIT VEHICLE A WINDOW VI JETTISON	BIL FOR AND IEW	IT IN C IN	Y G RE G,	TO P/ W.	PERFO L BAY UNL VA AN	DRM DO IKE	OR C	CTV LAT CTV S FO	FU CH RE R	NC' ES DUI CRI	TIC RI NDA EW	ON C ESUI ANCY VIS	OU LTI LTI LUZ	ILI [NC EX]	PREVENTED PREVEN	ENT OSS IA CTI	IB CR ON	MS LE EW A	SI LO ND	OW SS RMS	OF

SUBSYSTEM: COMM AND TRACK MDAC ID: 8003 ITEM: VIDEO SWITCHING UNIT  LEAD ANALYST: W.C. LONG						
TEAD ANALYST: W.C. LONG						
and an analysis of the state of						
ASSESSMENT:						
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM						
HDW/FUNC A B C						
NASA [3/2R] [P] [P] [P] [] * IOA [2/1R] [P] [P] [P] [X]						
COMPARE [ N /N ] [ ] [ ] [ N ]						
RECOMMENDATIONS: (If different from NASA)						
[ / ] [ ] [ ] [ ] (ADD/DELETE)						
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]						
REMARKS: INTERNAL ELECTRICAL OPEN/SHORT CIRCUIT COULD RESULT IN LOSS OF OUTPUT.						
LOSS OF VCU COULD RESULT IN LOSS OF CCTV AND MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.						

ASSESSMENT DAT ASSESSMENT ID: NASA FMEA #:	COMTRK-	8003H		NASA DATA BASELINI NEV				
SUBSYSTEM: MDAC ID: ITEM:	8003	COMM AND TRACK 3003 VIDEO SWITCHING UNIT						
LEAD ANALYST:	W.C. LO	W.C. LONG						
ASSESSMENT:								
CRITIC. FLI	LITY	REDUNDA	NCY SCRE	ENS	CIL ITEM			
	UNC	A	В	C	ITEM			
NASA [ 3 / 1 IOA [ 2 / 1	R ] [	P ] P ]	[ P ] [ p ]	[ P ] [ P ]	[ x ] *			
COMPARE [ N /	ן ני	]	[ ]	[ ]	[ N ]			
RECOMMENDATIONS	: (If d	ifferent	from NA	SA)				
[ /	] [	]	[ ]		[ ] ADD/DELETE)			
* CIL RETENTION	RATIONAL	E: (If a	pplicabl	e) ADEQUATE INADEQUATE				
REMARKS: INTERNAL ELECTION OUTPUT.		/SHORT C	IRCUIT C	OULD RESULT	IN LOSS OF			
LOSS OF VCU COU ALL CAPABILITY AND MONITORING VEHICLE AND CRI WINDOW VIEWING	LD RESULT TO PERFOR P/L BAY D W. UNLIK EVA AND	M CCTV F OOR LATC E CCTV R COAS FOR	UNCTION ( HES RESU EDUNDANC CREW VI	COULD PREVEN LTING IN POS Y EXISTS VIA SUAL INSPECT	T RMS STOW SSIBLE LOSS OF CREW TION AND RMS			
JETTISON TO AL	M E/L BA	I DOOK C	TOOUKE.	MOKOI CADE	CONDITION.			

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8003	31	NASA DATA: BASELINE NEW	[ ] [ x ]		
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TR 8003 VIDEO SWITC					
LEAD ANALYST:	W.C. LONG					
ASSESSMENT:						
CRITICAL FLIGH		OUNDANCY SCREENS		CIL ITEM		
HDW/FU		В	С			
NASA [ 3 /2R IOA [ 2 /1R	] [ P ]	] [ q ] [ ] [ q ] [	P ] P ]	[ ] * [ X ]		
COMPARE [ N /N	] [ ]	ן נין נ	]	[ N ]		
RECOMMENDATIONS:	(If diffe	erent from NASA)				
[ /	] [ ]	] [][	] (AD	[ ] D/DELETE)		
* CIL RETENTION	RATIONALE: (		ADEQUATE (ADEQUATE	[ X ]		
REMARKS: INTERNAL ELECTRICAL OPEN/SHORT CIRCUIT COULD RESULT IN LOSS OF OUTPUT. LOSS OF VCU COULD RESULT IN LOSS OF CCTV AND MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.						
JETTISON TO ALLO	W P/L DAI DC	OUR CHOSURE. WC	AUI CADE C	,0,,01110111		

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8003J 1.2.7	: ( x )						
SUBSYSTEM: MDAC ID: ITEM:	8003	COMM AND TRACK 8003 VIDEO SWITCHING UNIT						
LEAD ANALYST:	W.C. LONG							
ASSESSMENT:								
FI.TGH	ITY REDUNI I' NC A	DANCY SCREEN	rs C	CIL ITEM				
	] [ P ]	[ P ] [ [ q ]	P ]	[ x ] *				
COMPARE [ N /N	] [ ]	[ ] [	]	[ N ]				
RECOMMENDATIONS:	(If differer	nt from NASA	<b>'</b> )					
[ /	] [ ]	( ) (	[ ] <b>(A</b>	[ ] DD/DELETE)				
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]								
REMARKS: INTERNAL ELECTRICAL OPEN/SHORT CIRCUIT COULD RESULT IN LOSS OF OUTPUT.								
LOSS OF VCU COUL ALL CAPABILITY TO AND MONITORING P, VEHICLE AND CREW WINDOW VIEWING,	D PERFORM CCTV /L BAY DOOR LAT . UNLIKE CCTV EVA AND COAS FO	FUNCTION CO CCHES RESULT REDUNDANCY OR CREW VISU	OULD PREVENTING IN POST EXISTS VIA TAL INSPECT	I RMS STOW SIBLE LOSS OF CREW ION AND RMS				
JETTISON TO ALLO	W P/L BAY DOOR	CLOSURE. W	ORST CASE (	CONDITION.				

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8	003К		NASA DATA BASELINE NEW				
SUBSYSTEM: MDAC ID: ITEM:	8003	COMM AND TRACK 8003 VIDEO SWITCHING UNIT						
LEAD ANALYST:	W.C. LON	W.C. LONG						
ASSESSMENT:								
CRITICA FLIG		REDUNDANC	Y SCREENS	5	CIL ITEM			
	INC	A	В	С				
NASA [ 3 /2] IOA [ 2 /1]	] [	P ] [ P ] [	P ] [ p ] [	P ] P ]	[			
COMPARE [ N /N	] [	] [	] [	]	[ N ]			
RECOMMENDATIONS	(If di	ifferent f	rom NASA	)				
[ /	] [	. ] [	] [	] (A	[ ] DD/DELETE)			
* CIL RETENTION	RATIONALE	E: (If app		ADEQUATE NADEQUATE	[ X ]			
REMARKS: INTERNAL ELECTRICAL OPEN/SHORT CIRCUIT COULD RESULT IN LOSS OF OUTPUT.								
LOSS OF VCU COULD RESULT IN LOSS OF CCTV AND MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS								
TEMMISON MO ATT	NU D/I DAV	TOOD CTO	CIIDE W	ORST CASE	CONDITTION -			

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-800 1.2.9	03L	NASA DATA BASELINE NEW	: [ x ]			
	8003	COMM AND TRACK					
LEAD ANALYST:	W.C. LONG						
ASSESSMENT:				•			
FLIGH'		EDUNDANCY SCREEN B	is C	CIL ITEM			
NASA [ 3 /2R IOA [ 2 /1R	] [ P	] [P] [ ] [p] [	P ]	[ x ] *			
COMPARE [ N /N	] [	1 [ ] [	. 1	[ N ]			
RECOMMENDATIONS:	(If diff	ferent from NAS	7)				
[ /	] [	] [ ] [	[ ] (AI	[ ] DD/DELETE)			
* CIL RETENTION	RATIONALE:		ADEQUATE NADEQUATE				
REMARKS: INTERNAL ELECTRIC OUTPUT.	CAL OPEN/SH	HORT CIRCUIT COL	ULD RESULT	IN LOSS OF			
LOSS OF VCU COULD ALL CAPABILITY TO AND MONITORING POWER VEHICLE AND CREW WINDOW VIEWING, DETTISON TO ALLOW	O PERFORM C /L BAY DOOF . UNLIKE C EVA AND COA	CCTV FUNCTION CO R LATCHES RESULT CCTV REDUNDANCY AS FOR CREW VISU	OULD PREVENT TING IN POSS EXISTS VIA VAL INSPECTI	T RMS STOW SIBLE LOSS O CREW ION AND RMS			

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8003M 1.2.10	NAS BA	A DATA: SELINE [ ] NEW [ X ]					
SUBSYSTEM: MDAC ID: ITEM:	8003	COMM AND TRACK 3003 VIDEO SWITCHING UNIT						
LEAD ANALYST:	W.C. LONG							
ASSESSMENT:								
CRITICAL FLIGH	T	ANCY SCREENS	CIL ITEM					
HDW/FU	NC A	в с						
NASA [ 3 /2R IOA [ 2 /1R	] [ P ] ] [ P ]	[ P ] [ P ] [ P ]	[ ] * [ X ]					
COMPARE [ N /N	] [ ]	[ ] [ ]	[ N ]					
RECOMMENDATIONS:	(If different	from NASA)						
[ /	] [ ] .	[ ] [ ]	[ ] (ADD/DELETE) .					
* CIL RETENTION	RATIONALE: (If a	ADE	QUATE [ X ] QUATE [ ]					
REMARKS: INTERNAL ELECTRICAL OPEN/SHORT CIRCUIT COULD RESULT IN LOSS OF								
OUTPUT. LOSS OF VCU COULD RESULT IN LOSS OF CCTV AND MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.								

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-	8003N		NASA DATA BASELINE NEW				
	8003	COMM AND TRACK 8003 VIDEO SWITCHING UNIT						
LEAD ANALYST:	W.C. LO	NG						
ASSESSMENT:								
CRITICAL FLIGH HDW/FU	T	REDUNDĂI A	NCY SCREE	NS C	CIL ITEM			
nbw/ ro.		A	D	C				
NASA [ 3 /2R IOA [ 2 /1R	] [	P ] P ]	[ P ] [ p ]	[ P ] [ P ]	[			
COMPARE [ N /N	] [	]	[ ]	[ ]	[ N ]			
RECOMMENDATIONS:	(If d	ifferent	from NAS	A)				
[ /	] [	]	[ ]	[ ] (A)	[ ] .DD/DELETE)			
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ] INADEQUATE [ ]								
REMARKS: INTERNAL ELECTRICAL OPEN/SHORT CIRCUIT COULD RESULT IN LOSS OF OUTPUT.								
LOSS OF VCU COUL ALL CAPABILITY TO AND MONITORING P	O PERFOR	M CCTV FU	JNCTION CO	OULD PREVEN	T RMS STOW			
VEHICLE AND CREW	. UNLIK	E CCTV R	EDUNDANCY	EXISTS VIA	CREW			
WINDOW VIEWING,	EVA AND	COAS FOR	CREW VIST	JAL INSPECT	ION AND RMS			

JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.

ASSESSMEN NASA FMEA	T 1	JA [D	TE:	: (	3/05/88 COMTRK-80030 1.2.12							BASELINE [ ] NEW [ X ]							
SUBSYSTEM MDAC ID: ITEM:				;	COMM AND TRACK 8003 VIDEO SWITCHING UNIT														
LEAD ANAL	YS	Г:		1	w.c. I	<b>40</b> ,	IG												
ASSESSMEN	T:																		
C	1	FL	JIG	HT				DUND	NC		SCRE	ENS				[L [EM			
	HI	WC	/F	UN	С		A			В			С						
NASA IOA	[ ;	3 2	/2: /1:	R R	]	]	P P	]	[	P P	]	[	P P	]	[	x	]	*	
COMPARE	[ ]	N	/N		]	[		]	[		]	[		1	[	N	]		
RECOMMEND	AT:	IO	NS	:	(If	di	iff	erent	= 1	tro	om NA	SA	)						
	[		/		]	[		]	[		]	[		] (A		/DE		TE)	
* CIL RET	'EN'	TI	ON	R	ATIONA	L	Ξ:	(If a	apı	<b>91</b>	icabl			DEQUATE DEQUATE			]		
REMARKS: INTERNAL OUTPUT.																			
LOSS OF V ALL CAPAE AND MONIT VEHICLE A	OR:	II IN C	Y IG CRE	TO P/ W.	PERFO L BAY UNL	RI DO	M C OOF	CTV I	FUI CHI REI	NC: ES DUI	rion Resu Ndanc	COU LT: Y !	ULI INC EX:	PREVEN IN POS ISTS VIA	T : SI: C:	RMS BLI REV	S S E I V	WOTS SCO.	
WINDOW VI JETTISON	TO	IN A	IG,	E OW	VA ANI	) ( 3 <b>A</b> :	Y I	OOOR (	CL(	CKI OSI	JRE.	W	AL ORS	INSPECT ST CASE	CO	ND]	ITI	, KM:	5

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8003P 1.2.13	NASA DATA: BASELINE [ ] NEW [ X ]			
SUBSYSTEM:	COMM AND TRACK 8003 VIDEO SWITCHING UNIT				
LEAD ANALYST:	W.C. LONG				
ASSESSMENT:					
FLIGH'	ITY REDUNDANCY SCRE T NC A B	EENS CIL ITEM C			
NASA [ 3 /2R IOA [ 2 /1R	] [ P ] [ P ] ] [ P ] [ p ]	[ P ] [ ] * [ X ]			
COMPARE [ N /N	] [ ] [ ]	[ N ]			
RECOMMENDATIONS:	(If different from NA	ASA)			
[ /	] [ ] [ ]	[ ] [ ] (ADD/DELETE)			
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]					
REMARKS: INTERNAL ELECTRICAL OPEN/SHORT CIRCUIT COULD RESULT IN LOSS OF OUTPUT. LOSS OF VCU COULD RESULT IN LOSS OF CCTV AND MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.					

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8003Q 1.2.14	!	NASA DATA BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRA 8003 VIDEO SWITCH			
LEAD ANALYST:	W.C. LONG			
ASSESSMENT:				
CRITICAL FLIGH HDW/FU	T	INDANCY SCREE B	:NS C	CIL ITEM
•		_		
NASA [ 3 /2R IOA [ 2 /1R	[ P ] [ P ]	[P]	[ P ]	[
COMPARE [ N /N	] [ ]	[ ]	[ ]	[ N ]
RECOMMENDATIONS:	(If differ	ent from NAS	JA)	
. [ \	j [ ]	. ( 1	[ ] (A	[ .DD/DELETE)
* CIL RETENTION	RATIONALE: (I	[f applicable	ADEQUATE INADEQUATE	[ X ]
REMARKS: INTERNAL ELECTRI OUTPUT.			OULD RESULT	IN LOSS OF
LOSS OF VCU COUI ALL CAPABILITY T AND MONITORING I VEHICLE AND CREW WINDOW VIEWING,	O PERFORM CCT P/L BAY DOOR I UNLIKE CCT	TV FUNCTION C LATCHES RESUL TV REDUNDANCY	COULD PREVEN LTING IN POS ( EXISTS VIA	T RMS STOW SSIBLE LOSS OF CREW
WINDOW VIEWING, JETTISON TO ALL	EVA AND COAS W P/L BAY DOO	FOR CREW VIS	WORST CASE	CONDITION.

NASA DATA:

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8 1.2.15	003R		NASA DAT BASELIN NE	PA: VE [ ] EW [ X ]
SUBSYSTEM: MDAC ID: ITEM:			UNIT		
LEAD ANALYST:	W.C. LON	<b>IG</b>			
ASSESSMENT:					
CRITICAL FLIGHT	-		CY SCREI		CIL ITEM
HDW/FU	4C I.	A	В	С	
NASA [ 3 /2R IOA [ 2 /1R	] [	P ] [ P ] [	P ] p ]	[ P ] [ P ]	[ x ] *
COMPARE [ N /N	] [	] [	]	[ ]	[ N ]
RECOMMENDATIONS:	(If di	fferent	from NAS	SA)	
[ /	J . [.	] [	]	[ ]	[ ] ADD/DELETE)
* CIL RETENTION I	RATIONALE	: (If ap	plicable	e) ADEQUATE INADEQUATE	[ X ]
REMARKS: INTERNAL ELECTRIC OUTPUT.	CAL OPEN/	SHORT CI	RCUIT CO	OULD RESULT	IN LOSS OF
LOSS OF VCU COULD ALL CAPABILITY TO AND MONITORING PO VEHICLE AND CREW	PERFORM	CCTV FU	NCTION ( ES RESUI	COULD PREVE	NT RMS STOW SSIBLE LOSS OF
WINDOW VIEWING, I JETTISON TO ALLOW	EVA AND C	OAS FOR	CREW VIS	SUAL INSPEC	TION AND RMS

ASSESSMEN ASSESSMEN NASA FME	TV	ΙÏ	<b>D:</b>	CC	05/8 MTRK 2.16	7-8	300	35				ì	NASA BASE	DATA: LINE NEW	[	]		
SUBSYSTEM MDAC ID: ITEM:	И:			80	003			RACK CHIN		JN]	ſΤ							
LEAD ANA	LYS	ST	:	W.	c. I		NG											
ASSESSME	NT:	3																
(	CR]		ICAI LIGI				RE	DUND	ANC	CY	SCR	EENS			CII			
	F						A			В		(	C					
NASA IOA	[	3 2	/2! /1!	R ]		]	P P	]	[ [	P p	]	[ ]	P ] P ]		] [ X	]	*	
COMPARE	[	N	/N	]		[		]	[		]	[	1		[ N	[ ]		
RECOMMEN	DA'	rI	ONS	:	(If	đ:	iff	eren	it i	fro	om N	ASA)						
	(		/	]		[		]	[	٠	]	[	]	(AI		) ELE	ETE)	
* CIL RE	TEI	NT:	ION	RA!	rion <i>i</i>	ΑL	E:	(If	apı	ol:	icab		ADEQU ADEQU	ATE ATE	[ }	[ ] ]		
REMARKS: INTERNAL OUTPUT.																		
LOSS OF ALL CAPA AND MONIVEHICLE	BII TOI ANI	LI' RI: D	TY ' NG : CRE	ro : P/L W.	PERFO BAY UNL	ORI De LK	M ( 001 E (	CTV R LAT CCTV	FUI CHI REI	NC! ES DUI	rion RES NDAN	COU! ULTI! CY E!	LD PR NG IN XISTS	EVENT POSS VIA	RN IBI CRI	is s Le i Ew	STOW LOSS	OF
WINDOW V JETTISON	IEI T(	IIW C	NG, ALL	EV.	A ANI P/L I	D BA	CO?	AS FO	OR (	CRI OSI	EW V URE.	ISUA: WO:	L INS RST C	PECT:	CONI	ANI TIC	ON.	3

ASSESSMENT DATE: 3/05/88

NASA DATA:

ASSESSMENT ID: NASA FMEA #:	COMTRK-8003T 1.2.17		BASELINE NEW	[ X ]
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8003 VIDEO SWITCHIN			
LEAD ANALYST:	W.C. LONG			
ASSESSMENT:				
FLIGHT	ITY REDUND F NC A	DANCY SCREEN B	ns C	CIL ITEM
NASA [ 3 /2R IOA [ 2 /1R	] [ P ] ] [ P ]	[ P ] [ p ]	[P] [P]	[ x ] *
COMPARE [ N /N	] [ ]	[ ]	[ ]	[ N ]
RECOMMENDATIONS:	(If differen	nt from NAS	A)	
[ /	(I) I()	[ ]	[ ]	[ ] DD/DELETE)
* CIL RETENTION I	RATIONALE: (If		) ADEQUATE INADEQUATE	[ X ] [ ]
REMARKS: INTERNAL ELECTRIC OUTPUT.	•			
LOSS OF VCU COULD ALL CAPABILITY TO AND MONITORING PARTICLE AND CREW WINDOW VIEWING, IN JETTISON TO ALLOW	O PERFORM CCTV /L BAY DOOR LAT . UNLIKE CCTV EVA AND COAS FO	FUNCTION CO CCHES RESULY REDUNDANCY OR CREW VISU	OULD PREVENT TING IN POSS EXISTS VIA UAL INSPECTI	T RMS STOW SIBLE LOSS OF CREW ION AND RMS

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8003U 1.2.19	NASA DATA: BASELINE [ ] NEW [ X ]									
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8003 VIDEO SWITCHIN										
LEAD ANALYST:	W.C. LONG										
ASSESSMENT:											
CRITICAL FLIGH	ITY REDUND	ANCY SCRE	ENS	CIL ITEM							
HDW/FU		В	С	-							
NASA [ 3 /2R IOA [ 2 /1R	[P]	[ P ] [ P ]	[ P ] [ P ]	[ x ] *							
COMPARE [ N /N	] [ ]	[ ]	[ ]	[ N ]							
RECOMMENDATIONS:	(If differen	nt from NA	ASA)								
[ /	] [ ]	[ ]	[ ] (	[ ] ADD/DELETE)							
* CIL RETENTION	RATIONALE: (If	applicabl	.e) ADEQUATE INADEQUATE								
REMARKS: INTERNAL ELECTRICAL OPEN/SHORT CIRCUIT COULD RESULT IN LOSS OF OUTPUT.											
ALL CAPABILITY TAND MONITORING FOR VEHICLE AND CREW	LOSS OF VCU COULD RESULT IN LOSS OF CCTV AND MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXISTS VIA CREW VINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS										
JETTISON TO ALLO	W P/L BAY DOOR	CLOSURE.	WORST CASE	CONDITION.							

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-80 1.2.20	003V			[ x ]
SUBSYSTEM: MDAC ID: ITEM:	COMM AND 8003 VIDEO SW		UNIT		
LEAD ANALYST:	W.C. LONG	3			
ASSESSMENT:					
CRITICAL: FLIGH		REDUNDAI	NCY SCREE	ns	CIL ITEM
HDW/FU		A	В	С	·
NASA [ 3 /2R IOA [ 2 /1R	] [ ]	P ] P ]	[ P ] [ p ]	[ P ] [ p ]	[ ] * [ X ]
COMPARE [ N /N	] [	]	[ ]	[ ]	[ N ]
RECOMMENDATIONS:	(If di	fferent	from NAS	A)	
[ /	] [	]	[ ]	[ ] (AI	[ DD/DELETE)
* CIL RETENTION	RATIONALE	: (If a		ADEQUATE	[ x ]
REMARKS: INTERNAL ELECTRICOUTPUT.			IRCUIT CO		
LOSS OF VCU COUL	RESULT .	IN LOSS	OF CCIA	AND MISSION.	LOSS OF

ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF

WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.

VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXISTS VIA CREW

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:		004		NASA DATA BASELINE NEW	
	COMM AND 8004 REMOTE CO		UNIT		
LEAD ANALYST:	W.C. LONG	G			
ASSESSMENT:					
CRITICAL: FLIGH		REDUNDA	ncy scri	EENS	CIL ITEM
HDW/FU		A	В	С	
NASA [ 2 /1R IOA [ 2 /1R	] [ ]	P ] P ]	[ P ] [ p ]	[ P ] [ P ]	[ X ] * [ X ]
COMPARE [ /	] [	]	[ ]	[ ]	[ ]
RECOMMENDATIONS:	(If di	fferent	from N	ASA)	
. [ /	j í	.]	[ ]	[ ] (2	[ ] ADD/DELETE)
* CIL RETENTION	RATIONALE	: (If a	pplicab	le) ADEQUATE INADEQUATE	
REMARKS:	NALYSES A	GREE.			

ASSESSMI	ASSESSMENT DATE: 3/05/8: ASSESSMENT ID: COMTRK NASA FMEA #: 1.1.2															A DA SELI N		[		]		
SUBSYSTE MDAC ID:				80	OMM 004 EMOT					UN	II:	Г										
LEAD ANA	LY	ST	:	W.	c. :	LO	NG															
ASSESSME	ENT	:																				
	CR:		ICAL: LIGH		7		R	EDU	NDA	ANC	Y:	sc	REEN	S				CI		1		
			/FU				A				В			С								
NASA IOA	]	2	/1R /1R	]		[	P P	]		[ [	P p	]	[	P p	]			[	X X	]	*	
COMPARE	[		/	]		[		]		[		]	[		]			[		J		
RECOMMEN	DA'	ľIC	ons:		(If	d:	ifi	er	ent	: f	ro	m	NASA	.)								
	[		/	]		[		]		[		]	[		)		(AD	[ D/		•	TE	)
* CIL RE	TEN	T	ON I	RAT	IONA	LI	€:	(I:	f a	pp	lj	.ca		Al NAI	DEQ DEO	UATE UATE	2	[ ſ	X	]		
REMARKS: LOSS OF	נטס	'PU	JT AN	<b>NAL</b>	YSES	5 <i>P</i>	\GF	REE.	•				_	- · <b>- * •</b>	- <b></b> ×		•	L		J		

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8004B 1.1.5		NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8004 REMOTE CONTROL	UNIT		
LEAD ANALYST:	W.C. LONG			
ASSESSMENT:				
CRITICAL: FLIGHT HDW/FUI	r	ANCY SCREENS B	c	CIL ITEM
NASA [ 2 /1R IOA [ 2 /1R	] [ P ] ] [ P ]	[ P ] [ [ P ]	P ] p ]	[ X ] *
COMPARE [ /	] [ ]	[ ] [	]	[ ]
RECOMMENDATIONS:	(If different	t from NASA)		
[ /	] [ ]	[ ] [	] (AI	[ DD/DELETE;
* CIL RETENTION TREMARKS:	RATIONALE: (If a		ADEQUATE NADEQUATE	[ x ]

LOSS OF OUTPUT ANALYSES AGREE.

ASSESSMENT ASSESSMENT NASA FMEA	II :	D:	CO	MTRI	<b>K-</b> 8	B 0 ( 2	040	!							A DA SELI N		[			
SUBSYSTEM: MDAC ID: ITEM:			80									77275								
LEAD ANALY	ST	:	w.	c. 1	LOI	NG														
ASSESSMENT	<b>:</b>																			
CF	-	ICAL LIGH		•		RI	EDU	ND	ANC	Y:	SC	REEN	S				CI	L EN	1	
	HD	W/FU	NC.			A				В			С							
) ASAN ] AOI	2 2	/1R /1R	]		[	P P	]		]	P p	]	]	P P	]	2 ± 2.		[	X X	]	*
COMPARE [		/	]		[		]		[		]	[		]			[		]	
RECOMMENDA	TIC	ons:		(If	d:	ifí	fer	en	t f	ro	om 1	NASA	.)							
[		/	]		[		]		[		]	[		· ]		(AI		'DE		TE)
* CIL RETE	NT:	ION 1	RAT	'IONA	LI	Ξ:	(I	f	app	11	[ca]	Ť			TAUÇ TAUÇ			x	]	
REMARKS: LOSS OF OU	TPU	JT Al	IAV	YSES	5 <i>1</i>	AGI	REE													

ASSESSMENT DATE: 3/05/88 ASSESSMENT ID: COMTRK-8004D NASA FMEA #: 1.1.15																DAT ELIN NI	1E		x	]	
SUBSYSTEM MDAC ID:	M:			80	MM 2 04 MOTI					נאנ	ΓΊ	1									
LEAD ANA	LYS	ST:	:	W.	c. 1	COI	NG														
ASSESSME	NT	:																			
1	CR:		ICAL LIGH		7		RI	EDUN	DAI	1C?	Ÿ	SCRE	EN	S					L E	vr	
	1		W/FU				A			1	В			C				•		•	
NASA IOA			/1R /1R		•	[	P P	]		[ ] [ ]	P P	]	[	P P	]			[	X X	]	*
COMPARE	[		/	]		[		]		[		]	[		]			[		]	
RECOMMEN	DA'	ri(	ons:		(If	<b>d</b> :	if	fere	nt	f	rc	om NA	SA	۲)							
	[		/	]		[		]		[		]	[		]		(A)	-	/D	•	ETE)
* CIL RE	TE)	NT:	ION	RA'	CION	AL	E:	(If	' a	gp:	<b>1</b> i	cabl		A		UAT UAT			x	]	
REMARKS: LOSS OF	OU'	$\mathbf{TP}^{\dagger}$	UT A	NA]	LYSE	s i	AG:	REE.													

ASSESSMENT DA	TE: 3/05/	88				N.	ASA DATA	: .	
ASSESSMENT ID NASA FMEA #:	: COMTR	K-800	4E				BASELINE NEW		
SUBSYSTEM: MDAC ID: ITEM:	COMM 2 8004 REMOT			TINU	1				
LEAD ANALYST:	W.C.	LONG							
ASSESSMENT:									
	CALITY IGHT	RE	DUNDA	ЙСY	SCREE	NS		CII	
	/FUNC	A		В		С		T.1.	2M
NASA [ 2 ]	/1R ] /1R ]	[ P [ P	]	q ]	]	[ P	]	[ ]	( ] * ( ]
COMPARE [	/ 1	[	]	[	]	[	]	[	,1
RECOMMENDATIO	NS: (If	diff	erent	fro	m NAS	A)			
[ .	/ ]	[	] (	[	]	[	] (Al	[ ]\dc	] DELETE)
* CIL RETENTI	ON RATION	ALE:	(If a	ppli		AI	DEQUATE DEQUATE	[ 3	( ] ]
REMARKS: LOSS OF OUTPU	T ANALYSES	s AGR	EE.						

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-			NASA DAT BASELIN NE						
	COMM AN 8004 REMOTE									
LEAD ANALYST:	W.C. LO	NG								
ASSESSMENT:										
CRITICAL FLIGH		REDUND	ANCY SCR	REENS	CIL ITEM					
HDW/FU	NC	A	В	С						
NASA [ 2 /2 IOA [ 2 /1R	] [	P ]	[ ] [ g ]	[ ] [ p ]	[ X ] *					
COMPARE [ /N	] [	<b>N</b> ]	[ N ]	[ N ]	[ ]					
RECOMMENDATIONS:	(If d	ifferen	t from N	IASA)						
[ /	] - [	]	[ ]	[ ]	[ ] [ADD/DELETE)					
* CIL RETENTION	RATIONAL	E: (If	applicab	ole) ADEQUATE INADEQUATE						

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-800 1.1.9	04G		BASELINE	[ <b>x</b> ]					
<del></del>	8004	MOTE CONTROL UNIT								
LEAD ANALYST:	W.C. LONG									
ASSESSMENT:										
CRITICALITY REDUNDANCY SCREENS CIL										
FLIGH HDW/FUI			В	C	IIDA					
NASA [ 2 /2 IOA [ 2 /1R	] [ P	] [	p ]	[ ] [ p ]	[ X ] * [ X ]					
COMPARE [ /N	] [ N	] [	N ]	[и]	[ ]					
RECOMMENDATIONS:	(If dif:	ferent f	rom NAS	SA)						
[ /	] [	] [	]	[ ] (AI	[ ] DD/DELETE)					
* CIL RETENTION RATIONALE: (If applicable) ADEQUATE [ X ] INADEQUATE [ ]										
REMARKS: LOSS OF OUTPUT COVERS ALL RCU FUNCTIONS. ONLY THE WORST CASE FUNCTION WAS ANALYZED.										

ASSESSME ASSESSME NASA FME	NT I		COMTE	COMTRK-8004H BASELINE									]		
SUBSYSTE MDAC ID:	M:		8004	OMM AND TRACK 004 EMOTE CONTROL UNIT										ā	
LEAD ANA	LYST	:	W.C.	LON	G										
ASSESSME	NT:														
	F	LIGH	ITY T NC			EDUN	DANCY E		CREEN	s C			CIL	1	
		•				_			-	_			r v	,	
NASA IOA		/2 /1R	]	[	P	]	[ ]	, ]	]	p	]		[ X	]	•
COMPARE	[	/N	]	[	N	]	[ N	]	ſ	N	]		[	]	
RECOMMEN	DATI	ons:	(II	đi	f	fere	nt fr	om	NASA	)					
	[	/	]	. [		]	. [	]	[		]	(A	[ DD/D1		ETE)
* CIL RE	TENT	NOI	RATIO	IALE	::	(If	appl	ic			DEQUA'			]	
REMARKS: LOSS OF FUNCTION					. ]	RCU	FUNCT	OI.	NS.	ON:	LY TH	E W	ORST	CZ	ASE

ASSESSMI ASSESSMI NASA FMI	ENT I	D:	COMTRE	7-8	00	<b>4</b> I					NASA DATA BASELINI NEV		]	
SUBSYSTEMDAC ID:			COMM A 8004 REMOTE								- <del>13</del> - 7 - 11			FF 12 F
LEAD ANA	LYST	:	W.C. I	ON	G									
ASSESSMI	ENT:													
		ICALI LIGHT			RE	DUNDA	N	ZY	SCREE	ENS	5	CIL		
					A			В			С			
NASA IOA	[ 2 [ 2	/2 /1R	]	נ נ	P	]	[	p	]	]	p ]	X ]	]	*
COMPARE	[	/N	]	[	N	]	[	N	]	[	n j	[	]	
RECOMMEN	DATI(	ONS:	(If	di	ff	erent	: 1	fro	m NAS	A)	)			
	[	1.	1	[		]	[		] .	[	] (2	[ ADD/D	] ELE	TE)
* CIL RE	TENT:	ION F	RATIONA	LE	:	(If a	pp	oli	.cable	-	ADEQUATE VADEQUATE	[ X	]	
REMARKS: LOSS OF	OUTP			LL	R	CU FU	NO	TI	ons.	c	ONLY THE V	ORST	CA	SE

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:		004J		NASA DATA BASELINE NEW					
	COMM AND 8004 REMOTE C		UNIT						
LEAD ANALYST:	W.C. LON	.c. LONG							
ASSESSMENT:									
CRITICAL FLIGH	T		NCY SCREE		CIL ITEM				
HDW/FU	NC .	A	В	С					
NASA [ 2 /2 IOA [ 2 /1R	] [	P ]	[ ] [p]	[ ] [ p ]	[ X ] * [ X ]				
COMPARE [ /N	] [	n ]	[ N ]	[ N ]	[ ]				
RECOMMENDATIONS:	(If di	fferent	from NAS	SA)					
[ /	] [	1	[ ]	[ ] (A	[ ] DD/DELETE)				
* CIL RETENTION	RATIONALE	: (If a	pplicable	ADEQUATE	[ X ]				
REMARKS: LOSS OF OUTPUT C		RCU FU	NCTIONS.	ONLY THE W	ORST CASE				

ASSESSMEN ASSESSMEN NASA FMEA	I T	D:	COMTR	K-80	004K			NASA DATA BASELINE NEV	
SUBSYSTEM MDAC ID:	[:		COMM 7 8004 REMOT				T		
LEAD ANAI	YST	:	W.C. 3	LONG	3				
ASSESSMEN	T:								
c	F	ICAL	r			id <b>an</b> cy _			CIL ITEM
	HD	W/FUI	NC	P	<b>A</b>	В		<b>C</b>	• • •
NASA IOA	[ 2 [ 2	/2 /1R	]	[ [ [	, ] , ]	] q ]	]	[ p ]	[ X ] *::::
COMPARE	[	/N	]	[ ]	1]	[ N	1	[и]	[ ]
RECOMMEND	ATI	ons:	(If	dif	fere	nt fr	om NA	ASA)	
	[	/	]	[	]	[	]	[ ] (A)	[ ] .DD/DELETE)
	ENT	ION I	RATION	ALE:	(If	appl	icabl	.e) ADEQUATE INADEQUATE	[ X ] [ ]
REMARKS: LOSS OF O FUNCTION				ALL	RCU	FUNCT	ions.	ONLY THE W	ORST CASE

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8004L	BASELINE NEW	[ x ]	
	COMM AND TRACK 8004 REMOTE CONTROL			
LEAD ANALYST:	W.C. LONG			
ASSESSMENT:				
CRITICALI FLIGHT	r	ANCY SCREENS		CIL ITEM
HDW/FUN	NC A	В	С	
NASA [ 3 /1R IOA [ 2 /1R	] [ P ] ] [ P ]	[ P ] [ P ]	P ] P ]	[ X ]
COMPARE [ N /	] [ ]	[ ] [	]	[ N ]
RECOMMENDATIONS:	(If different	from NASA)	1	
[ /	] [ ]	[ ] [	] (AD	[ DD/DELETE)
* CIL RETENTION I	RATIONALE: (If a		ADEQUATE NADEQUATE	
REMARKS: LOSS OF OUTPUT CO FUNCTION WAS ANA				-

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:		4M	NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TO 8004 REMOTE CON			
LEAD ANALYST:	W.C. LONG			
ASSESSMENT:				
CRITICAL: FLIGHT	ľ	DUNDANCY SCREEN		CIL ITEM
HDW/FU	NC A	В	С	
NASA [ 3 /1R IOA [ 2 /1R	] [ P [ P	[ P ] [ ] [ P ] [	P ] P ]	[ ] * [ X ]
COMPARE [ N /	J [	] [ ] [	1	[ N ]
RECOMMENDATIONS:	(If diff	erent from NASA	.)	
	] [	] [ ] [		[ ] DD/DELETE)
* CIL RETENTION I	RATIONALE:		ADEQUATE NADEQUATE	[ X ]
REMARKS: LOSS OF OUTPUT CO		CU FUNCTIONS.	ONLY THE WO	RST CASE

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:		04N			NASA DATA BASELINI NEV	
	COMM AND 8004 REMOTE CO		UNIT			
LEAD ANALYST:	W.C. LONG	}				- · <u>-</u> · ·
ASSESSMENT:						
CRITICAL FLIGH	T			SCREEN		CIL ITEM
HDW/FU	NC A	<b>\</b>	В		С	
NASA [ 3 /1R IOA [ 2 /1R		? ]	[ P	] [	P ] P ]	[ x ] *
COMPARE [ N /	] [	]	[	] [	]	[ N ]
RECOMMENDATIONS:	(If dif	ferent	t fro	m NASA	)	
[ /	] [	]	τ	] [	] (2	[ ] ADD/DELETE)
* CIL RETENTION	RATIONALE:	(If a	appli		ADEQUATE NADEQUATE	
REMARKS: LOSS OF OUTPUT C FUNCTION WAS ANA		RCU FU	UNCTI	ons.	ONLY THE V	WORST CASE

ASSESSMEN ASSESSMEN NASA FMEA	T I	D:	COMTRE	<b>7–8</b>		)40						ASA D BASEL		[		]	
SUBSYSTEM MDAC ID: ITEM:	:		COMM A 8004 REMOTE						•								
LEAD ANAL	YST	:	W.C. I	ЮN	īG												
ASSESSMEN	T:																
C	F	ICALI LIGHT W/FUI			RE A	EDUND	Al	NCY B	SCRE	EN	s C			CI	EM	1	
NASA IOA	[ 3 [ 2	/1R /1R	]	[	P P	]		[ P	]	[	P p	]		]	x	]	*
COMPARE	[ N	/	]	[		]		[	]	[		]		[	N	]	
RECOMMEND	ATI(	ons:	(If	di	.ff	eren	t	fr	om NA	SA	)						
	[	/	1	[		]	1	[	]	[		]	(AI	•	'DE	-	TE)
* CIL RET	ENT:	ION I	RATIONA	LE	:	(If	aį	ppl	icabl			DEQUA DEQUA				]	
REMARKS: LOSS OF O FUNCTION				LI	F	CU F	Uì	NCT	ions.	(	ІИС	LY TH	E WC	RS	T	CA	SE

ASSESSME ASSESSME NASA FME	NT	II		COMTRI	K-8		)4P					ASA DA BASELI N		[	x	]	
SUBSYSTE MDAC ID: ITEM:	M:			COMM 7 8004 REMOT				UNI	т							a =	-
LEAD ANA	LY	ST	:	W.C. 1	LOI	1G											
ASSESSME	NT	:															
		F	LIGH'	r			EDUNDA		SCRE	EN:					CL CEN	A	
	]	HD	W/FUI	NC		A		В			С						
NASA IOA	[ [	3 2	/1R /1R	]	[ [	P P	]	[ P	]	[ [	P P	]		[	x	]	*
COMPARE	[	N	/	]	[		1	[	]	[		]		[	N	]	
RECOMMEN	'DA'	TI	ONS:	(If	<b>d</b> :	ifi	ferent	t fr	om NA	SA	)						
	[		/	]	[		]	[	]	[		]	(Al		/DI		TE)
* CIL RE	TE	NT:	ION 1	RATION	AL	Ε:	(If a	appl	icabl			DEQUAT DEQUAT			x		
REMARKS:					AL:	LI	RCU F	UNCT	ions.			-		٠		•	SE

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-800	<b>4</b> Q	NASA DATA: BASELINE NEW	
	COMM AND TO 8004 REMOTE CON			
LEAD ANALYST:	W.C. LONG			
ASSESSMENT:				
CRITICAL: FLIGHT HDW/FUI	ľ	DUNDANCY SCREE	ns C	CIL ITEM
•		_	•	
NASA [ 3 /1R IOA [ 2 /1R	] [ P	] [P] ] [P]	[ P ]	[ X ] *
COMPARE [ N /	] [	] [ ]	[ ]	[ N ]
RECOMMENDATIONS:	(If diff	erent from NAS	A)	
[ /	J [	] [ ]	[ ] (AI	[ ] OD/DELETE)
* CIL RETENTION 1	RATIONALE:	(If applicable	) ADEQUATE INADEQUATE	
REMARKS: LOSS OF OUTPUT CO FUNCTION WAS ANA		CU FUNCTIONS.	ONLY THE WO	ORST CASE

ASSESSME ASSESSME NASA FME	TN	II	ATE:	3/05 COMT	rk-	800	04R							DATA LINE NEV	.,		]	
SUBSYSTEM: COMM AND TR MDAC ID: 8004 ITEM: REMOTE CONT									JNI	T								
LEAD ANA	LY	ST	:	W.C	. LO	NG												
ASSESSME	ENT	:																
	CR		CAL:			RI	EDU	IADI	4C?	SCI	REEN	S			C]	IL EN	1	
	]		/FUI			A			F	3		C					_	
NASA IOA			/2R /1R	]	[	P P	]		[ ] [ ]	? ] ? ]	[ [	P p	]		[	x	]	*
COMPARE	[	N	/N	3	[		]		[	]	[		]		[	N	]	
RECOMMEN	IDA'	TI	ons:	(	If d	if:	fere	ent	fı	com 1	NASA	)						
	[		/	]	ξ		]		[	]	•		]	(2	[ ADD/	/DI		ETE)
* CIL RI	ETE:	NT:	ION 1	RATI	ONAL	E:	(I:	f a	pp]	Lical				JATE		x	]	
REMARKS		тРI	UT C	OVER	S AL	L I	RCU	FU:	NC:	rions			-	JATE THE V	-	ST	CI	ASE
FUNCTION																		

ASSESSMENT DATE ASSESSMENT ID: NASA FMEA #:					: [ x ] [ x ]								
SUBSYSTEM: MDAC ID: ITEM:	COMM AN 8004 REMOTE	D TRACK CONTROL											
LEAD ANALYST:	W.C. LO	NG											
ASSESSMENT:													
CRITICALITY REDUNDANCY SCREENS CIL ITEM													
HDW/F	JNC	A	В	С									
NĀSA [ 3 /3 IOA [ 2 /1	] [ R ] [	p ]	[ ] [ P ]	[ ] [ P ]	[ x ]								
COMPARE [ N /N	] [	N ]	[ N ]	[ N ]	[ N ]								
RECOMMENDATIONS	(If d	ifferent	from NAS	iA)									
[ /	] [	]	[ ]	[ ] (AD	[ ] DD/DELETE)								
* CIL RETENTION	RATIONAL	E: (If a	applicable	e) ADEQUATE INADEQUATE	[ X ]								
REMARKS: LOSS OF OUTPUT FUNCTION WAS AN		L RCU FU	INCTIONS.	~	DRST CASE								

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-			NASA DATA BASELINE NEW	
	COMM AN 8004 REMOTE	D TRACK			
LEAD ANALYST:	W.C. LO	NG			
ASSESSMENT:					
CRITICA: FLIG HDW/F	łT	REDUND A	ANCY SCRE	ENS C	CIL ITEM
NASA [ 3 /3 IOA [ 2 /1	] [	P ]	[ ] [ P ]	[ ] [ P ]	[ x ] *
COMPARE [ N /N	] [	N ]	[ N ]	[ N ]	[ N ]
RECOMMENDATIONS	: (If d	lifferen	t from NA	SA)	
[ /	] [	]	[ ]	[ ]	[ ] ADD/DELETE)
* CIL RETENTION	RATIONAL	LE: (If	applicabl	e) ADEQUATE INADEQUATE	
REMARKS: LOSS OF OUTPUT FUNCTION WAS AN		LL RCU F	UNCTIONS.	ONLY THE V	NORST CASE

ASSESSMENT DATE:	3/05/88			NASA DATA	
ASSESSMENT ID: NASA FMEA #:	COMTRK-8	3004U		BASELINE NEW	[ x ]
	COMM ANI 8004 REMOTE (		UNIT		
LEAD ANALYST:	W.C. LOI	1G			
ASSESSMENT:					
CRITICAL: FLIGH		REDUNDA	NCY SCREE	ens	CIL ITEM
HDW/FU	_	A	В	С	IIDN
NASA [ 3 /3 IOA [ 2 /1R	] [	P ]	[ ] [ P ]	[ ] [ P ]	[
COMPARE [ N /N	] [	и ј	[ N ]	[ N ]	[ N ]
RECOMMENDATIONS:	(If di	ifferent	from NAS	SA)	
[ /	] [	]	[ ]	[ ] (AI	[ ] DD/DELETE)
* CIL RETENTION	RATIONALI	E: (If a	pplicable		
				ADEQUATE INADEQUATE	
REMARKS: LOSS OF OUTPUT CO FUNCTION WAS ANA		C RCU FU	NCTIONS.	ONLY THE WO	ORST CASE

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:		004V		NASA DATA: BASELINE NEW	
	COMM AND 8004 REMOTE CO		UNIT		
LEAD ANALYST:	W.C. LONG	3			
ASSESSMENT:					
FLIGH				ens C	CIL ITEM
HDW/FU	NC 2	A.	В	C	
NASA [ 3 /3 IOA [ 2 /1R	] [	] P ]	[ ] [ P ]	[ ] [ P ]	[ X ]
COMPARE [ N /N	] [1	и ]	[ N ]	[и]	[ и ]
RECOMMENDATIONS:	(If di	fferent	from NAS	SA)	
[ /	1. [	]	[ ]	[ ] (A)	[ DD/DELETE)
* CIL RETENTION	RATIONALE	: (If a	applicable	ADEQUATE INADEQUATE	[ X ]
REMARKS: LOSS OF OUTPUT C FUNCTION WAS ANA		RCU FU	INCTIONS.	ONLY THE W	ORST CASE

ASSESSME ASSESSME NASA FME	NT I	D:	COMTR	K-80	04W			NASA DAT BASELIN NE	TA: JE [ ] ZW [ X ]
SUBSYSTE MDAC ID: ITEM:			COMM 8	-			т		
LEAD ANA	LYST	<b>:</b>	W.C. :	LONG					
ASSESSME	NT:								
	F	LIGH'	ITY I NC				SCR		CIL ITEM
NASA IOA	[ 3 [ 2	/3 /1R	]	[ [ P	]	[ [ P	]	[ ] [ P ]	[ x ] *
COMPARE	[ N	/N	]	[ N	]	[ N	]	[и]	[ N ]
RECOMMEN	DATI	ons:	(If	difi	fere	nt fr	om N	IASA)	
	[,	/	]	[	]	[	j	[ ]	[ ] ADD/DELETE)
* CIL RE	TENT	ION I	RATION	ALE:	(If	appl	icab	ole) ADEQUATE INADEQUATE	
		. 21 1				FUNCT	IONS	ONLY THE	WORST CASE

ASSESSMEN ASSESSMEN NASA FMEA	T ID:	04Y				SA DATA ASELINE NEW	[	x	]			
SUBSYSTEM MDAC ID:	1:	COMM A 8004 REMOTE				r						
LEAD ANAI	LYST:	W.C. I	LONG									
ASSESSMEN	NT:											
C	CRITICAL FLIGH	T			•	SCRE				IL PEN	1	
	HDW/FU	NC	A	•	В		С					
	[ 3 /3 [ 2 /1R	]	[ [ P	]	[ [ P	]	[ [ P	]	]	x	]	*
COMPARE	[ N /N	]	[ N	]	[ N	]	[ N	]	[	N	]	
RECOMMENI	DATIONS:	(If	dif	ferer	nt fr	om NA	SA)					
	[ /	]	[	]	[	]	[	] . (A	, [ ]	/DI	] ELE	TE;
* CIL RE	<b>TENTION</b>	RATIONA	ALE:	(If	appl	icabl	AD	EQUATE	[	x	]	
REMARKS: LOSS OF (			ALL	RCU I	TUNCT	ions.	ONL	Y THE W	ior:	ST	CA	SE

ASSESSMENT DATE:	3/05/88			NASA DATA:	
	COMTRK-8	004Z		BASELINE	
NASA FMEA #:	1.1.21.2			NEW	[ X ]
•					
SUBSYSTEM:	COMM AND	TRACK			
MDAC ID:	8004				•
ITEM:	REMOTE C	ONTROL U	UNIT		
LEAD ANALYST:	W.C. LON	G	т		
ASSESSMENT:					
CRITICAL	rπv	PEDIINDAI	NCY SCREEN	'S	CIL
FLIGHT		ICDDONDIA	NOI DONDEN	~	ITEM
HDW/FU		A	В	C	
11511/101		••	_		
NASA [ 3 /3	1 [	1	r 1 f	1	* ۲
NASA [ 3 /3 IOA [ 2 /1R	ii	Ρĺ	i igi	Ρĺ	[ ] * [X]
1011 [ 2 / 111	J .	- ,	, .	• •	,
COMPARE [ N /N	1 r	N ]	ן וון	N ]	[ N ]
, , ,	, .	•	. , .	•	•
RECOMMENDATIONS:	(If di	fferent	from NASA	.) '	
	·				
[ /	] [	]	[ ] [	]	[ ]
· ·			•	(AI	DD/DELETE)
* CIL RETENTION I	RATIONALE	: (If a	pplicable)		
				ADEQUATE	[ X ]
			I	NADEQUATE	[ ]
REMARKS:					
LOSS OF OUTPUT CO		RCU FUI	NCTIONS.	ONLY THE WO	RST CASE
FUNCTION WAS ANAI	LYZED.			· · · - · · ·	

ASSESSME													1			EL:		[		]	
MDAC ID: 8004 ITEM: REMOTE CONTROL									INI	r											
LEAD ANA	LYS	ST	:	W.C. 1	LOI	NG															
ASSESSME	NT:	:																			
•	CRI		CAL LIGH			RI	EDUND	ΙA	IC3	?	SCRE	EN	S						IL FE		
	I			NC		A			F	3			(	2				_		•	
NASA IOA	[	3 2	/3 /1R	]	[	P	]		·	•	]	[ [	]	P	]			[	X	]	* .
COMPARE	[	N	/N	]	[	N	]	1		1	]	[	1	V	]			Į	N	]	
RECOMMEN	DA:	ric	ons:	(If	<b>d</b> :	if:	feren	ıt	fı		om NA	SA	.)								
	[		/	]	[		]	-	•		]	[			]		(A	] ,DD,	/D	EL E	ETE)
* CIL RE	TEI	NT:	ION I	RATION	AL	Е:	(If	ap	gp]	Ŀj	icabl		7			UA'		•	X	]	
REMARKS: LOSS OF OUTPUT COVERS ALL RCU   FUNCTION WAS ANALYZED.								וטי	(C)	ני	cons.							•	ST	C.	ASE

ASSESSME ASSESSME NASA FME	ASSESSMENT DATE: 3/05/88 ASSESSMENT ID: COMTRK- NASA FMEA #: 1.1.22. SUBSYSTEM: COMM AN												SA DATA BASELINI NEV	E (			]
SUBSYSTE MDAC ID: ITEM:				COMM A 8004 REMOTE				UI	rin	?							
LEAD ANA	LYS	ST:	:	W.C. I	<b>10</b>	IG											
ASSESSME	NT:	:															
		Fl	LIGHT	ITY I NC		RI A	EDŪNDA	AN	CY B	SCREE	NS	C			II TE		
NASA IOA	[	3 2	/3 /1R	]	[	P	]	[ [	P	]	[	P	]	. [	X	<b>C</b>	] <b>*</b> ]
COMPARE	Ì	N	/N	]	[	N	]	[	N	]	[	N	]	Į	. 1	1	]
RECOMMEN	DA'	ric	ons:	(If	di	Lf1	eren	t :	fro	om NAS	A)						
•	[		/	]	[		]	[		]	[		]	l ADI	)/[	Œ	] LETE)
* CIL RE		T	ION I	RATIONA	LI	€:	(If a	ap)	pli	cable			EQUATE	•	}		
LOSS OF	EMARKS: OSS OF OUTPUT COVERS ALL RCU I UNCTION WAS ANALYZED.								CTI	ons.	c	NI	Y THE	WOI	RSI	יים	CASE

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8005 1.1.1		A DATA: SELINE [ ] NEW [ X ]
MDAC ID:	COMM AND TRAC 8005 REMOTE CONTRO		
LEAD ANALYST:	W.C. LONG		
ASSESSMENT:			
FLIG	LITY REDUN IT INC A	DANCY SCREENS B C	CIL ITEM
NASA [ 2 /11 IOA [ 2 /11	R ] [ P ]	[P] [P]	
COMPARE [ /	] [ ]	[ ] [ ]	[ ]
RECOMMENDATIONS	: (If differe	ent from NASA)	
ĺ	] [ ]	[ ] [ ]	[ ] (ADD/DELETE)
* CIL RETENTION	RATIONALE: (If	applicable) ADE INADE	QUATE [ X ] QUATE [ ]
REMARKS: INTERNAL ELECTR OUTPUT. ANALYS	ICAL OPEN/SHORT	CIRCUIT COULD R	ESULT IN LOSS OF

ASSESSMEI ASSESSMEI NASA FME	I TV	D:	COMTRI		00!	5 <b>A</b>						SA DATA BASELINI NEV			]	
SUBSYSTEM MDAC ID:		COMM A 8005 REMOTE		טו	נונ											
LEAD ANALYST: W.C. LONG																
ASSESSMENT:																
(		ICAL LIGH	ITY r	1	RE	DUNDA	/N(	CY	SCI	REENS	5			IL CEM	Ī	
			NC	7	A			В			С				-	
NASA IOA	[ 2	/1R /1R	]	[ ]	P P	]	[	P p	]	]	P p	]	[ [	X X	] *	t
COMPARE	C	/	]	[		]	[		]	[		]	[		]	
RECOMMEN	DATI	ons:	(If	di:	ff	erent	: 1	fro	om 1	NASA)			,			
•	[	/	]	[		]	[		]	[		] (2	[ ADD,	/DE	] LET	CE)
* CIL RE	PENT	ION 1	RATIONA	\LE	:	(If a	ıpı	91 i	cal			EQUATE EQUATE		X	]	
REMARKS: INTERNAL OUTPUT.			CAL OPI		SH	ORT (	CII	RCU	JIT	COUL	D	RESULT	IN	LC	SS	OF

ASSESSMENT DATA ASSESSMENT ID NASA FMEA #:	COMTRK-		NASA DATA: BASELINE [ ] NEW [ X ]						
SUBSYSTEM: MDAC ID: ITEM:	COMM AN 8005 REMOTE								
LEAD ANALYST:	W.C. L	ONG							
ASSESSMENT:									
FL	ALITY GHT FUNC	REDUNI A	DANCY SCI B	REENS C	CIL ITEM				
·			rpi	rpl	( X ) *				
NASA [ 2 ] IOA [ 2 ]	1R ]	[ P ]	[ p ]	[ ק ]	[ X ] * [ X ]				
COMPARE [	1	[ ]	[ ]	[ ]	[ ]				
RECOMMENDATIO	s: (If	differe	nt from 1	NASA)					
[ .	]	[ ]	[ ]	[ ]	[ ] (ADD/DELETE)				
* CIL RETENTI	N RATIONA	LE: (If	applical	ole) ADEQUA INADEQUA					
	RICAL OPE		CIRCUIT	COULD RES	ULT IN LOSS OF				

ASSESSME	SSMENT DATE: 3/05/88 SSMENT ID: COMTRK-8005C FMEA #: 1.1.11.2							NASA DATA: BASELINE [ ] NEW [ X ]						
SUBSYSTE MDAC ID: ITEM:	M:		8005	;	ONTR	CK OL UN	IT							
LEAD ANA	LYST	:	W.C.	LON	īG									
ASSESSME	NT:													
	F	LIGH'	ITY T NC			NDANC	y scf B	REENS		CI II	IL TEM			
NACA		•			TD 1	r	 D 1	ſΒ	1	r	<b>Y</b> 1	*		
IOA	[ 2	/1R	1	[	P]	֓֞֞֜֜֜֜֜֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	p ]	[ P	]	ľ	x j			
COMPARE	[	/	]	[	]	[	]	[	]	[	]			
RECOMMEN	DATI	ons:	(1	f di	ffer	ent f	rom N	IASA)						
	[	/	]	[	]	[	]	[	] (.		] 'DELE	TE)		
* CIL RE	TENT	ION 1	RATIC	NALE	: (I:	f app	licab	Al	DEQUATE DEQUATE		x ]			
INTERNAL OUTPUT.			CAL C		SHOR!	T CIR	CUIT	COULD	RESULT	IN	LOSS	OF		

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-80		NASA DATA: BASELINE [ ] NEW [ X ]					
	COMM AND 8005 REMOTE CO		T					
LEAD ANALYST:	W.C. LONG							
ASSESSMENT:								
CRITICAL FLIGH	T	EDUNDANCY			CIL ITEM			
HDW/FU	NC A	. В	C					
NASA [ 2 /1R IOA [ 2 /1R	[ P	'] [P	[ P	]	[ X ] * [ X ]			
COMPARE [ /	] [	] [	] [	]	[ ]			
RECOMMENDATIONS:	(If dif	ferent fr	om NASA)					
. [ /	] [	] [	] [	] (A	[ ] DD/DELETE)			
* CIL RETENTION	RATIONALE:	(If appl	A	DEQUATE	•			
REMARKS: INTERNAL ELECTRI		HORT CIRC	UIT COULD	RESULT	IN LOSS OF			

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:			NASA DATA: BASELINE [ ] NEW [ X ]					
	COMM AND TRA 8005 REMOTE CONTR							
LEAD ANALYST:	W.C. LONG							
ASSESSMENT:								
CRITICALI FLIGHT	r	NDANCY SCRE B	ENS C	CIL ITEM				
HDW/FU	NC A	Б						
NASA [ 2 /1R IOA [ 2 /1R	] [ P ] ] [ P ]	[ P ] [ P ]	[ P ] [ p ]	[ X ] * [ X ]				
COMPARE [ /	1 [ 1	[ ]	[ ]	[ ]				
RECOMMENDATIONS:	(If differ	ent from NA	.SA)					
[ /	] [ ]	[ ]	[ ]	[ ] ADD/DELETE)				
* CIL RETENTION H	RATIONALE: (I	f applicabl	e) ADEQUATE INADEQUATE					
REMARKS: INTERNAL ELECTRIC OUTPUT. ANALYSES		T CIRCUIT C	OULD RESULT	IN LOSS OF				

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8		NASA DATA: BASELINE [ ] NEW [ X ]						
	COMM AND 8005 REMOTE O								
LEAD ANALYST:	W.C. LOI	1G							
ASSESSMENT:									
CRITICAL FLIGH		REDUNI	ANCY SCRE	ENS	CIL ITEM				
	NC	A	В	С					
NASA [ 2 /2 IOA [ 2 /1R	] [	p ]	[ ] [ <b>p</b> ]	[ p]	[ X ] * [ X ]				
COMPARE [ /N	] [	N ]	[и]	[ 14 ]	[ ]				
RECOMMENDATIONS:	(If d	iffere	nt from NA	.SA)					
[ /	] [	]	[ ]	[ ]	[ ] ADD/DELETE)				
* CIL RETENTION	RATIONAL	E: (If	applicabl	e) ADEQUATE INADEQUATE	[ X ]				
REMARKS: INTERNAL ELECTRI OUTPUT. ANALYSE	S AGREE.	LOSS	OF OUTPUT	COVERS ALL	RCU				

ASSESSMENT D ASSESSMENT I NASA FMEA #:	D: COMT	RK-8005G		NASA DA' BASELI N	TA: NE [ ] EW [ X ]
SUBSYSTEM: MDAC ID: ITEM:	8005	AND TRACI			
LEAD ANALYST	: W.C.	LONG			
ASSESSMENT:					
F	CICALITY				CIL ITEM
HD	W/FUNC	A	В	С	
NASA [ 2 IOA [ 2	/2 ] /1R ]	[ ] [ P ]	[ p]	[ ] [p]	[ X ] * [ X ]
COMPARE [	/n ]	[ N ]	[ N ]	[ N ]	[ ]
RECOMMENDATI	ons: (I	f differer	nt from NA	ASA)	
Ţ	/ 1	[ ]	[ ]	[ ]	[ (ADD/DELETE)
* CIL RETENT	ION RATIO	NALE: (If	applicabl	ADEQUATI	E [ X ] E [ ]
REMARKS: INTERNAL ELE	CTPTCAL O	рги/снорт	CTRCIITM (	OUTD RESULT	יי דא ז <u>ה</u> פפ סד
OUTPUT. ANA					

FUNCTIONS. ONLY THE WORST CASE FUNCTION WAS ANALYSED.

ASSESSMENT DATE ASSESSMENT ID: NASA FMEA #:	COMTRK-			NASA DATA BASELINE NEW	
	COMM AN 8005 REMOTE				
LEAD ANALYST:	W.C. LO	NG			
ASSESSMENT:					
CRITICA FLIG		REDUND	ANCY SCRE	ENS	CIL ITEM
	JNC	A	В	C .	1154
NASA [ 2 /2 IOA [ 2 /1	] [ R ] [	P ]	[ ] [ <b>q</b> ]	[ ] [ p ]	[ X ] * [ X ]
COMPARE [ /N	] [	иј	[и]	[ N ]	[ ]
RECOMMENDATIONS	: (If d	lifferen	nt from NA	SA)	
[ /	] [	]	[ ]	[ ]	[ ADD/DELETE)
* CIL RETENTION	RATIONAL	E: (If	applicabl	e) ADEQUATE INADEQUATE	
	ES AGREE.	LOSS	OF OUTPUT	COULD RESULT COVERS ALL WAS ANALYSI	RCU

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-80	051	NASA DATA: BASELINE [ ] NEW [ X ]					
SUBSYSTEM: MDAC ID: ITEM:	COMM AND 8005 REMOTE CO		NIT					
LEAD ANALYST:	W.C. LONG	;						
ASSESSMENT:								
CRITICAL FLIGH HDW/FU			CY SCREEN B	s c	CIL ITEM			
•		1 r	1 r	1	[ X ] *			
NASA [ 2 /2 IOA [ 2 /1R	įįį	j į	p ] [q	į q	[ X ] * [ X ]			
COMPARE [ /N	] [ N	r ] [	N ] [	N ]	[ ]			
RECOMMENDATIONS:	(If dif	ferent	from NASA	)	-			
[ /	] [	] [	] [	] (AI	[ ] DD/DELETE)			
* CIL RETENTION	RATIONALE:	(If ap	plicable)	ADEQUATE	[ X ]			
			I	NADEQUATE				
REMARKS: INTERNAL ELECTRI OUTPUT. ANALYSE	S AGREE.	LOSS OF	OUTPUT C	OVERS ALL F	RCU			
FUNCTIONS. ONLY	THE WORST	CASE FU	INCLION M	AS ANALYSEI	J.			

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8005J	NASA DATA: BASELINE [ ] NEW [ X ]					
	COMM AND TRACE 8005 REMOTE CONTROL						
LEAD ANALYST:	W.C. LONG						
ASSESSMENT:							
CRITICAL		DANCY SCREENS	CIL ITEM				
FLIGH HDW/FU		в с	<del></del>				
NASA [ 2 /2 IOA [ 2 /1R	] [ p ]	[ ] [ ] [ q ] [ q ]	[ X ] *				
COMPARE [ /N	] [ N ]	[ и ]	[ ]				
RECOMMENDATIONS:	(If differe	nt from NASA)					
[ /	] [ ]	[ ] [ ]	[ ] (ADD/DELETE)				
* CIL RETENTION	RATIONALE: (If	ADE	QUATE [ X ]				
REMARKS: INTERNAL ELECTRI OUTPUT. ANALYSE FUNCTIONS. ONLY	S AGREE. LOSS	CIRCUIT COULD R	ESULT IN LOSS OF				

ASSESSMENT DA ASSESSMENT ID NASA FMEA #:	: COMTRK	-8005K	NASA DATA: BASELINE [ ] NEW [ X ]					
SUBSYSTEM: MDAC ID: ITEM:	COMM A							
LEAD ANALYST:	W.C. L	ONG						
ASSESSMENT:								
FL	CALITY JGHT J/FUNC	REDUND A	ANCY SCRI	EENS C	CIL ITEM			
NASA [ 2 IOA [ 2	/2 ] /1R ]	[ ] [ P ]	[ ] [ q ]	[ ] [ q ]	[ X ] * [ X ]			
COMPARE [	/N ]	[ N ]	[ N ]	[и]	[ ]			
RECOMMENDATIO	NS: (If	differen	t from NA	(SA)	•			
ſ	/ 1	[ ]	[ ]	[ ] (2	[ ] ADD/DELETE)			
* CIL RETENTI	ON RATIONA	LE: (If	applicabl	ADEQUATE				
REMARKS: INTERNAL ELEC OUTPUT. ANAL	YSES AGREE	. LOSS	OF OUTPUT	COVERS ALL	IN LOSS OF			
FUNCTIONS. O	NLY THE WO	RST CASE	FUNCTION	I WAS ANALYSI	≝D.			

ASSESSMEN NASA FMEA	IT IT \	DA II :	ATE:	3/ CC	05/ MTR 1.1	88 K-8 6	300	)5L		NASA DATA: BASELINE [ ] NEW [ X ]											
SUBSYSTEM MDAC ID: ITEM:				80	05			TRAC NTRO		UN	ΓI										
LEAD ANAI	LYS	T:	:	W.	c.	LO	1G														
ASSESSMEN	T:	:																			
C		FI	CAL:	r				EDUN	DA.	NC		SC	REEI						CL CEN		
	F	IDV	V/FUI	NC.			A				В				С						
NASA IOA	[	3 2	/1R /1R	]		[	P P	]		[ [	P P	]		[ [	P p	]		]	x	]	*
COMPARE	[	N	/	]		[		]		[		]		[		]		[	N	]	
RECOMMENI	ľAC	CIC	ons:		(If	d:	ifi	fere	nt	f	rc	om I	NASZ	A)							
	[		/	]		[		]		[		]		ר <sup>`</sup>		]	(AI		/DI		TE)
* CIL RET	ľEN	T	ION I	RAT	CION	ALI	E:	(If	<b>a</b>	pp	oli	lca!	•			EQUA EQUA			x		
REMARKS: INTERNAL OUTPUT. FUNCTIONS	ΑN	IA	LYSES	SA	GRE	E.	I	Loss	0	F	JO	JTP	UT (	CO	VE	ers a	LL E	RCT	J.	)SS	OF

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:		005M		NASA DATA BASELINE NEW				
	8005	MM AND TRACK 05 MOTE CONTROL UNIT						
LEAD ANALYST:	W.C. LON	r <b>G</b>						
ASSESSMENT:								
CRITICAL: FLIGHT	r	REDUNDA		SCREENS		CIL ITEM		
HDW/FU	NC	A	В		С			
NASA [ 3 /1R IOA [ 2 /1R	] [	P ] P ]	[ P	] [	P ] P ]	[ x ] *		
COMPARE [ N /	] [	]	[	] [	]	[ N ]		
RECOMMENDATIONS:	(If di	fferent	fro	m NASA)				
[ /	] [	]	[	] [	] (A)	[ ] DD/DELET:	Ë)	
* CIL RETENTION I	RATIONALE	: (If a	ppli	cable)				
		•			ADEQUATE IADEQUATE			
	S AGREE.	LOSS (	F OU	IT COUI	~	IN LOSS (	OF	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8	005N	NASA DATA: BASELINE [ ] NEW [ X ]					
MDAC ID:	8005	COMM AND TRACK 8005 REMOTE CONTROL UNIT						
LEAD ANALYST:	W.C. LON	.C. LONG						
ASSESSMENT:								
CRITICAL	CY SCREI	ens	CIL ITEM					
FLIGH HDW/FU	NC .	A	В	С	IIEM			
NASA [ 3 /1R IOA [ 2 /1R	] [	P ] [ P ] [	P ] p ]	[ P ]	[ x ] *			
COMPARE [ N /	] [	] [	]	[ ]	[ N ]			
RECOMMENDATIONS:	(If di	fferent	from NAS	SA)				
[ /	] [	] [	]	[ ] (A	[ DD/DELETE)			
* CIL RETENTION	RATIONALE	: (If ap	plicable	e) ADEQUATE INADEQUATE				
REMARKS: INTERNAL ELECTRI OUTPUT. ANALYSE FUNCTIONS. ONLY	S AGREE.	LOSS OF	OUTPUT	OULD RESULT	IN LOSS OF			

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8005	0	NASA DATA: BASELINE [ ] NEW [ X ]					
MDAC ID:	8005	OMM AND TRACK 005 EMOTE CONTROL UNIT						
LEAD ANALYST:	W.C. LONG							
ASSESSMENT:								
CRITICAL FLIGH HDW/FU	r	UNDANCY SCREE B	ns C	CIL ITEM				
•		[ P ] [ P ]	[ P ] [ P ]	[ ] * [ x ]				
COMPARE [ N /	] [ ]	[ ]	[ ]	[ N ]				
RECOMMENDATIONS:	(If diffe	rent from NAS	A)					
[ /	] [ ]	[ ]		[ ] DD/DELETE)				
* CIL RETENTION	RATIONALE: (		) ADEQUATE INADEQUATE					
REMARKS: INTERNAL ELECTRICAL OPEN/SHORT CIRCUIT COULD RESULT IN LOSS OF OUTPUT. ANALYSES AGREE. LOSS OF OUTPUT COVERS ALL RCU FUNCTIONS. ONLY THE WORST CASE FUNCTION WAS ANALYSED.								

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	•	COMTRK-8005P BASELINE						
	8005	OMM AND TRACK 005 EMOTE CONTROL UNIT						
LEAD ANALYST:	W.C. LON	C. LONG						
ASSESSMENT:	ASSESSMENT:							
CRITICAL FLIGH	T		ANCY SCRE		CIL ITEM			
HDW/FU	NC	A	В	С				
NASA [ 3 /1R IOA [ 2 /1R		P ] P ]	[ P ] [ P ]	[ P ] [ P ]	[ x ] *			
COMPARE [ N /	] [	]	[ ]	[ ]	[ N ]			
RECOMMENDATIONS:	(If di	ifferen	t from NA	SA)				
[ /	] [	]	]	[ ] (A	[ ] DD/DELETE)			
* CIL RETENTION	RATIONALI	E: (If	applicable					
				ADEQUATE INADEQUATE				
OUTPUT. ANALYSE	INTERNAL ELECTRICAL OPEN/SHORT CIRCUIT COULD RESULT IN LOSS OF OUTPUT. ANALYSES AGREE. LOSS OF OUTPUT COVERS ALL RCU							

ASSESSMEN ASSESSMEN	T	II	D:	CO	05/88 MTRK-8005Q 1.23.2								-		ASA BASI	ELI		Ţ				
NASA FMEZ SUBSYSTER MDAC ID: ITEM:		•		CO1	MM A	NI	נכ			UI	יוו	ני					•		L	21	J	
LEAD ANA	LYS	ST	:	W.	c. I	Oì	1G															
ASSESSME	NT:	:																				
(		F	ICAL: LIGH: W/FUI	<u> </u>			RI A	EDUN	NDA	N	CY B	sc	CREE	NS	c	_				L LEN	1	
			•		= "	_		_		_		_										_T.
NASA IOA	]	3 2	/1R /1R	]			P P	]		[	þ	]		[	p	]			[	X	]	ж
COMPARE	[	N	/	]		[		]		[		]		[		)			[	N	]	
RECOMMEN	DA:	ri	ons:		(If	d:	ifí	ere	ent	: :	fro	om	NAS	A)	)							
	[		/	]		[		. ]		[		]		[		]		(AI	] ,dc	/DI	] ELF	ETE)
* CIL RE	rei	NT:	ION I	RAT	IONA	L	Ξ:	(Ii	ŧ a	Į <b>p</b> j	pli	Lca				DEQU DEQU				x	]	
REMARKS: INTERNAL OUTPUT. FUNCTIONS	Al	NA:	LYSES	5 A	GREE	Ι.	1	COSS	SC	F	OU	JTI	r co Put	UI	D D	RES	SUL AL	T I	IN RCI	Ţ	) SSS	OF

ASSESSMEN NASA FMEA	IT IT L #	DA ID :	TE:	3/0 CON	05/8 MTRK L.7	K-8005R BASE					SASEI		[								
SUBSYSTEM MDAC ID: ITEM:				800	)5			RAC TRO			ΓI	1		-							
LEAD ANAI	LYS	T:		W.(	c. I	101	IG														
ASSESSMEN	T:																				
C			CAL:				RE	EDUN	DA	NC		sc	REE	NS					L PEM		
	H	DW	/FUI	NC			A				В				С						
NASA IOA	[	3 2	/2R /1R	]		[	P P	]		[	P p	]		[ [	P p	]		]	x	]	*
COMPARE	[	N	/N	]		[		]		[		]		[		]		[	N	]	
RECOMMENI	TAC	'IC	NS:		(If	d:	ifí	fere	nt	f	fro	m	NAS	A)	)						
	[		/	]		[		]		[		J		[		]	(Al			] ELE	ETE)
* CIL RE	ren	ΙΤΙ	ON :	RAT:	ION	ALI	Ξ:	(If	a	pp	<b>)</b> 1:	Lca	ble			DEQUA		[	x	]	
REMARKS: INTERNAL OUTPUT. FUNCTIONS	AN	IAI	YSE	S A	GREI	Ε.	]	Loss	0	F	Ot	JTF	TU	C	נעכ	ERS A	ALL !	RCI	n T	oss	S OF

3/05/88 COMTRK-80058 1.1.3	5	NASA DATA BASELINE NEW	-
W.C. LONG			
			CIL ITEM
IC A	В	С	
] [ p ]	[ ] [ q ]	[ ] [ p ]	[ x ] *
] [ N ]	[ N ]	[ N ]	[ N ]
(If differ	ent from NAS	A)	
]. [ ]	[ ]	[ ] IA)	[ ] DD/DELETE)
RATIONALE: (	f applicable		r 17 1
	:		[ X ]
AGREE. LOS	S OF OUTPUT	COVERS ALL F	RCU
	COMTRK-80058 1.1.3  COMM AND TRA 8005 REMOTE CONTR W.C. LONG  TY REDU TO A  [ ] [ ] [ P ]  ] [ N ]  (If differ ] [ ] [ ]  RATIONALE: (I	COMTRK-8005S 1.1.3  COMM AND TRACK 8005 REMOTE CONTROL UNIT  W.C. LONG  TY REDUNDANCY SCREE  IC A B  [	COMTRK-8005S 1.1.3  COMM AND TRACK 8005 REMOTE CONTROL UNIT  W.C. LONG  TY REDUNDANCY SCREENS  IC A B C  [ ] [ ] [ ] [ ]  ] [ P ] [ P ] [ P ]  [ [ N ] [ N ] [ N ]  (If different from NASA)  ] [ ] [ ] [ ]

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8	3005T		NASA DATA: BASELINE [ ] NEW [ X ]				
	8005	OMM AND TRACK 005 EMOTE CONTROL UNIT						
LEAD ANALYST:	W.C. LONG							
ASSESSMENT:								
CRITICAL FLIGH	CIL ITEM							
HDW/FU		<b>A</b>	В	C				
NASA [ 3 /3 IOA [ 2 /1R	] [	p ]	[ ] [q]	[ ] [ p ]	[ x ] *			
COMPARE [ N /N	] [	n j	[ N ]	[ N ]	[ N ]			
RECOMMENDATIONS:	(If d	ifferer	nt from NA	SA)				
. [ /	] [	]	[ ]	[ ] (A	[ ] .DD/DELETE)			
* CIL RETENTION	RATIONAL	E: (If	applicabl	e) ADEQUATE INADEQUATE	[ X ] [ ]			
REMARKS: INTERNAL ELECTRICAL OPEN/SHORT CIRCUIT COULD RESULT IN LOSS OF OUTPUT. ANALYSES AGREE. LOSS OF OUTPUT COVERS ALL RCU FUNCTIONS. ONLY THE WORST CASE FUNCTION WAS ANALYSED.								

ASSESSMEN ASSESSMEN NASA FME	T T	D:	COMTRI		05U	NASA DA' BASELII N					[ [ }		
SUBSYSTEM MDAC ID:	<b>4</b> :		COMM 2 8005 REMOTI				r						
LEAD ANAI	LYST	:	W.C. 1	LONG	;								
ASSESSMEN	T:												
(	F	ICALI LIGHT W/FUN	7	R		DANCY B	SCRE	ENS C			CII		
NASA IOA	[ 3	/3 /1R	]	[ [ P	]	[ q ]	]	] q ]	]		] K ]	]	*
COMPARE	[ N	/N	]	[ N	]	[ N	]	[ N	]		[ ]	[ ]	-
RECOMMENI	DATI	ons:	(If	dif	fere	nt fro	om NA	.SA)					
	[	/	1	[	]	[	]	[	]	(AD	[ D/E	] ELE	TE)
* CIL RET	TENT	ION F	RATION	ALE:	(If	appl:	icabl	Al	DEQUAT DEQUAT	E E	K ]	; ] ]	
REMARKS: INTERNAL												OSS	OF

FUNCTIONS. ONLY THE WORST CASE FUNCTION WAS ANALYSED.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8	005V	NASA DATA: BASELINE [ NEW [ X					
SUBSYSTEM: MDAC ID: ITEM:	8005	TRACK ONTROL UNI	T.					
LEAD ANALYST:	W.C. LONG	.c. Long						
ASSESSMENT:								
CRITICAL FLIGH		REDUNDANCY	SCREENS	5	CIL ITEM			
HDW/FU		A I	3	С				
NASA [ 3 /3 IOA [ 2 /1R	] [	P ] [ r	] [	p ]	[ x ] *			
COMPARE [ N /N	] [ ]	и] [и	[ ]	n j	[ N ]			
RECOMMENDATIONS:	(If di	fferent fi	om NASA)	)				
[ /	] [	.1 . [	] [	] (Al	[ ] DD/DELETE)			
* CIL RETENTION	RATIONALE	: (If app)		ADEQUATE	[ X ]			
REMARKS:			I	NADEQUATE	[ ]			
INTERNAL ELECTRI	S AGREE.	LOSS OF	OUTPUT CO	OVERS ALL 1	RCU			

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8	COMTRK-8005W BASELIN						
MDAC ID:	8005	OMM AND TRACK 005 EMOTE CONTROL UNIT						
LEAD ANALYST:	W.C. LO	C. LONG						
ASSESSMENT:								
FLIGH	T	REDUNDA	ANCY SCREI	ENS C	CIL ITEM			
HDW/FU	INC	A	Б					
NASA [ 3 /3 IOA [ 2 /11	] [	P ]	[ ] [p]	[ ] [ p ]	[ x ] *			
COMPARE [ N /N	] [	N ]	[ N ]	[и]	[ N ]			
RECOMMENDATIONS:	(If d	ifferen	t from NAS	SA)				
[ /	j · [	]	[ ]	[ ] (A)	[ ] DD/DELETE)			
* CIL RETENTION	RATIONALI	E: (If	applicable	e) ADEQUATE INADEQUATE				
REMARKS: INTERNAL ELECTRI OUTPUT. ANALYSI FUNCTIONS. ONLY	S AGREE.	LOSS	OF OUTPUT	COVERS ALL	RCU			

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8005Y BASELINE [					
MDAC ID:	COMM AND TRA 8005 REMOTE CONTR					
LEAD ANALYST:	W.C. LONG					
ASSESSMENT:						
CRITICAL FLIGH HDW/FU	T	ndancy screens B C	CIL I <b>TEM</b>			
NASA [ 3 /3 IOA [ 2 /1R	] [ p ]	[ ] [ q ] [q ]	] [x]*			
COMPARE [ N /N	] [ N ]	[и] [и	] [ N ]			
RECOMMENDATIONS:	(If differ	ent from NASA)				
[ /	] [ ]	. [ ] [	[ ] (ADD/DELETE)			
* CIL RETENTION	RATIONALE: (I	A	DEQUATE [ X ] DEQUATE [ ]			
	S AGREE. LOS	S OF OUTPUT COV				

NASA DATA:

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8005Z	NASA DATA: BASELINE NEW	
MDAC ID:	COMM AND TRACK 8005 REMOTE CONTROL UNIT		En marin d
LEAD ANALYST:	W.C. LONG		
ASSESSMENT:			
FLIGH'			CIL ITEM
NASA [ 3 /3 IOA [ 2 /1R	] [ ] [ ] [ ] [ ;	] p ]	[ x ]
COMPARE [ N /N	ј [иј [иј [	и ј	[и]
RECOMMENDATIONS:	(If different from NASA)		
[ /	1 [t 1 t 1 t	] (ÀD	[ ] D/DELETE)
* CIL RETENTION	RATIONALE: (If applicable)	ADEQUATE ADEQUATE	[ X ]
OUTPUT. ANALYSE	CAL OPEN/SHORT CIRCUIT COUL S AGREE. LOSS OF OUTPUT CO THE WORST CASE FUNCTION WA	VERS ALL R	CU

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8005AA	NASA BASE	DATA: LINE [ ] NEW [ X ]
MDAC ID:	COMM AND TRACK 8005 REMOTE CONTROL		
LEAD ANALYST:	W.C. LONG		
ASSESSMENT:			
CRITICAL: FLIGH	ITY REDUND	ANCY SCREENS	CIL ITEM
HDW/FU		ВС	·
NASA [ 3 /3 IOA [ 2 /1R	] [ p ]	[ ] [ ] [ g ]	[ ] * [ x ]
COMPARE [ N /N	] [ N ]	[ N ]	[ N ]
RECOMMENDATIONS:	(If differen	t from NASA)	
1	] [ ]	[ ] [ ]	[ ] (ADD/DELETE)
* CIL RETENTION	RATIONALE: (If		ame ry 1
			ATE [ X ] ATE [ ]
OUTPUT. ANALYSE:	S AGREE. LOSS	CIRCUIT COULD RES OF OUTPUT COVERS FUNCTION WAS ANA	ALL RCU

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8	3005BB	NASA DATA: BASELINE [ ] NEW [ X ]					
	COMM AND 8005 REMOTE (		UNIT					
LEAD ANALYST:	W.C. LON	1G						
ASSESSMENT:								
CRITICAL: FLIGHT HDW/FUI	r	REDUNDA A	NCY SCREE	C C	CIL ITEM			
NASA [ 3 /3 IOA [ 2 /1R	] [	p ]	[ ] [ p ]	[ ] [ q ]	[			
COMPARE [ N /N	1 (	и ј	[ N ]	[ N ]	[ N ]			
RECOMMENDATIONS:	(If di	ifferent	from NAS	A)				
[ /	J	1	[ ]	[ ]	[ ] DD/DELETE)			
* CIL RETENTION 1	RATIONALI	E: (If a	applicable	ADEQUATE	[ X ]			
REMARKS: INTERNAL ELECTRIC OUTPUT. ANALYSES FUNCTIONS. ONLY	S AGREE.	LOSS (	F OUTPUT	ULD RESULT 1	IN LOSS OF			

ASSESSME ASSESSME NASA FME	NT I		COM	rrk-80	06	NASA DA BASELI 1							
SUBSYSTEMDAC ID:	M:		800	M AND 6 CAMERA			K)						
LEAD ANA	LYST	:	W.C	. LONG									
ASSESSME	NT:												
			ITY	R	EDUN	IDANCY	SCR	EENS			CII		
		LIGH W/FU	HT UNC A			В	в с			III			
NASA IOA	[ 3 [ 3	/3 /3	]	] [	]	[ [	]	[ [	]		[	] <b>*</b> ]	
COMPARE	[	/	]	ſ	]	[	]	[	]		[	]	
RECOMMEN	DATI	ons:	(	If dif	fere	ent fr	om N	IASA)					
	[	/	]	. [	]	[	]	τ	]	(A		] DELETE	
* CIL RE	TENT	NOI	RATI	ONALE:	(11	f appl	icak	7	DEQU DEQU				
REMARKS: LOSS OF CRITICAL	OUTE					LURE M	ODE	COVE	RS AL	L FU	NCT]	cons.	

ASSESSMI ASSESSMI NASA FMI	ENT	I	D:	COM	TRK-8	006A		NASA DATA: BASELINE [ ] NEW [ X ]							
SUBSYSTEMDAC ID	:			800				CK)							
LEAD AN	ALY	ST	:	W.C	. LON	G									
ASSESSM	ENT	:													
	CR		ICAI LIGH			REDUN	DANCY	scr	REENS			CII			
	1					<b>A</b> .	I	3	C	3			31.1		
NASA IOA	[	3	/3 /3	]	]	]	[	]	נ נ	]		[	] ;	*	
COMPARE	C		/	]	[	]	[	]	[	]		[	]		
RECOMME	NDA!	ΓI	ons:	C	If di	ffere	nt fi	om N	TASA)						
	[		/	]	[	]	[	]	[	]	(Al		] DELE:	ΓE)	
* CIL RI	ETEI	NT:	ION	RATI	ONALE	: (If	appl	icab	ole)	<b>555</b> 6	13 H112		, 1		
DEWARKS											ATE ATE				
REMARKS: LOSS OF CRITICAL	OU.						URE M	ODE	COVER	RS AI	L FUI	NCTI	ONS	•	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-800	06B		_	SA DATA BASELINE NEW		]
<del></del>	COMM AND 1 8006 TV CAMERA		CK)				
LEAD ANALYST:	W.C. LONG						
ASSESSMENT:							
== ::::	ITY R	EDUNDANC	Y SCRE	ENS		CIL	M
FLIGH HDW/FU		;	в с			1111	•
NASA [ 3 /3 IOA [ 3 /3	] [	] [	]	[	]	[	] * ]
COMPARE [ /	] [	] [	]	[	]	[	]
RECOMMENDATIONS:	(If dif	ferent f	rom NA	SA)			
[ /	] [	] [	]	[	] · (A	[ .DD/D	] ELETE)
* CIL RETENTION	RATIONALE:	(If app	licabl	Al	DEQUATE DEQUATE		]
REMARKS: LOSS OF OUTPUT W CRITICALITIES IN			MODE C	OVER	S ALL FU	NCTI	ons.

ASSESSMENT DAT ASSESSMENT ID: NASA FMEA #:	COMTRK-	8006C			ASA DAT BASELIN NE		]
SUBSYSTEM: MDAC ID: ITEM:	COMM AN 8006 TV CAME						
LEAD ANALYST:	W.C. LO	NG					
ASSESSMENT:							
CRITIC FLI		REDUNE	ANCY SCR	EENS		CIL	
	FUNC	A	В	С		110	••
NASA [ 3 / IOA [ 3 /	3 ] [	]	[ ]	[	]	[	] *
COMPARE [ /	) [	]	[ ]	[	]	[	]
RECOMMENDATION	S: (If d	ifferen	t from N	ASA)			
[ /	. ] [	]	[ ]	[	] (	[ ADD/D	] ELETE)
* CIL RETENTION	N RATIONAL	E: (If	applicab	A	DEQUATE DEQUATE		]
REMARKS: LOSS OF OUTPUT CRITICALITIES			RE MODE	COVER	S ALL F	UNCTI	ons.

ASSESSMEN ASSESSMEN NASA FMEA	T ID:	•	RK-8006I	)	NASA DATA: BASELINE [ ] NEW [ X ]							
SUBSYSTEM MDAC ID:	<b>!</b> :	8006	AND TRA		CK)							
LEAD ANAI	YST:	W.C.	LONG									
ASSESSMEN	IT:											
c	RITIC	ALITY	REDU	JNDANC	Y SCR	EENS			CIL			
	HDW/		A		В	C	:		111	11		
NASA IOA	[ 3 /	3 ] 3 ]	[ ]	] [	]	[	]		[	]	*	
COMPARE	[ /	1	[ ]	[	]	ξ	]		[	]		
RECOMMEND	OATION	s: (I	f differ	rent f	rom N	ASA)						
	[ /	]	[ ]	[	]	[	]	(AI	[ DD/D	] ELF	TE:	
* CIL RET	TENTIO	N RATIO	ONALE: (	If app	licab	1	ADEQUA ADEQUA			[ ]		
REMARKS: LOSS OF C				LURE	MODE	COVE	RS AL	L FUI	1CTI	ONS	3.	

ASSESSM ASSESSM NASA FM	ENT I	D:	3/05/ COMTR 3.1.5	K-80	06E			]	NASA DA BASELI N			
SUBSYST: MDAC ID ITEM:			COMM 8006 TV CA				CK)					
LEAD AN	ALYST	:	w.c.	LONG								
ASSESSM	ENT:											
			ITY	R	EDUN	DANCY	SCF	REENS		CI		
		LIGH W/FU	nc nc	A		F	3	(	С	11.	CM	
NASA IOA	[ 3	/3 /3	]	[	]	[	]	[ [	]	[	]	*
COMPARE	[	/	1	Į	]	[	]	[	]	[	]	
RECOMME	NDATI	ons:	(If	dif	fere	nt fr	om N	IASA)		-		
	[	/	]	Ţ	]	[	]	[	]	[ (ADD/	] DELE	TE)
* CIL R	ETENT	ON	RATION	IALE:	(If	app]	licab		ADEQUAT ADEQUAT		x ]	
REMARKS LOSS OF CRITICA	OUTP					URE N	ODE	COVE	RS ALL	FUNCT	IONS	ļ •

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:		,	NASA DATA: BASELINE [ ] NEW [ X ]						
	COMM AND TRA 8006 TV CAMERA (F								
LEAD ANALYST:	W.C. LONG								
ASSESSMENT:									
	ITY REDU	INDANCY SCR	REENS	CIL ITEM					
FLIGH HDW/FU	<del></del>	В	С	IIEM					
NASA [ 3 /3 IOA [ 3 /3		[ ]	[ ]	* [ ] [ ]					
COMPARE [ /	] [ ]	[ ]	[ ]	[ ]					
RECOMMENDATIONS:	(If differ	rent from N	IASA)						
[ /	] [ ]	[ ]	[ ]	[ ] (ADD/DELETE)					
* CIL RETENTION	RATIONALE: ()	[f applicak	ole) ADEQUA INADEQUA						
REMARKS: LOSS OF OUTPUT WOOD CRITICALITIES IN		LURE MODE		• •					

ASSESSME	SSESSMENT DATE: 3/05/88 SSESSMENT ID: COMTRK-8006G ASA FMEA #: 3.2.2  JBSYSTEM: COMM AND TRACK								N		DATA LINE NEW	[		
SUBSYSTE MDAC ID:				800				CK)						
LEAD ANA	ALYS	ST	:	W.C	. LON	G								
ASSESSME	ENT:	:												
	CRI				:	REDUN	DANC)	SCI	REENS			CII		
	CRITICALITY FLIGHT HDW/FUNC					A	I	3	c	С		111	5PI	
NASA IOA	[	3 3	/3 /3	]	נ נ	]	] [	]	[ [	]		[	]	*
COMPARE	[		/	]	[	]	[	]	Ţ	. ]		[	]	
RECOMMEN	IDA'I	CIO	ons:	(	If di	ffere	ent fi	om 1	VASA)					
	[		/	]	C	]	[	]	Į.	]	(A		] DELE	TE)
* CIL RE		T	ION	RATI	ONALE	: (If	app]	.icak	Æ	DEQU	JATE JATE			
REMARKS: LOSS OF CRITICAL	ניטס						URE N	ODE	COVER	S AI	LL FU	NCT1	ONS	•

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:		)6H			SA DATA BASELINE NEW		-
<del>-</del>	COMM AND T 8006 TV CAMERA		DECK)				
LEAD ANALYST:	W.C. LONG						
ASSESSMENT:							
CRITICAL		EDUNDA	NCY SCRE	ENS		CIL	M
FLIGH HDW/FU			В	C		1111	14
NASA [ 3 /3 IOA [ 3 /3	] [	]	[ ]	]	]	[	] <b>*</b>
COMPARE [ /	] [	]	[ ]	[	]	[	]
RECOMMENDATIONS:	(If dif	ferent	from NA	SA)			
[ /	] [	]	[ ]	[	] (2	[ ADD/D	] ELETE)
* CIL RETENTION	RATIONALE:	(If a	pplicabl	ΑI	DEQUATE DEQUATE		
REMARKS: LOSS OF OUTPUT W CRITICALITIES IN			E MODE C	OVERS	S ALL FU	JNCTI	ONS.

ASSESSMI ASSESSMI NASA FMI	ENT	I	D:		TRK-80	061			1	NASA BASE	DATA LINE NEW	[	x ]	
SUBSYSTIMDAC ID:				800	M AND 6 CAMERA			:K)						
LEAD AN	ALY	ST	:	W.C	. LONG	;								
ASSESSMI	ENT	:												
	CR				R	EDUN	IDANCY	SCF	REENS			CII	_	
	CRITICALITY FLIGHT HDW/FUNC NASA [ 3 /3 ]				A			В		2		111	7M	
NASA IOA	[	3	/3 /3	]	[	]	[ [	]	[	]		]	] *	ſ
COMPARE	[		/	1	[	]	[	]	]	]		[	]	
RECOMMEN	VDA:	ri(	ons:	(	If dif	fere	ent fr	om N	VASA)					
	[		/	]	[	]	[	]	[	]	(Al	[ DD/I	] DELET	'E)
* CIL RI	ETEI	NT:	ION	RATI	ONALE:	(If	appl	icak	7	ADEQU ADEQU		-	κij	
REMARKS: LOSS OF CRITICAL	ָטטי						LURE M	ODE				•	•	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-800 3.2.4	06J		-	SA DATA ASELINE NEW		]				
	COMM AND S 8006 TV CAMERA		CK)								
LEAD ANALYST:	W.C. LONG										
ASSESSMENT:											
CRITICAL		EDUNDANCY	SCREE	ens		CIL					
FLIGH HDW/FU		F	3	С		IIE.					
NASA [ 3 /3 IOA [ 3 /3	] [	] [	]	]	]	[	] * ]				
COMPARE [ /	ı ı	] [	]	[	]	[	]				
RECOMMENDATIONS:	(If dif	ferent fr	om NAS	5A)							
RECOMMENDATIONS: (If different from NASA)  [ / ] [ ] [ ] [ ] (ADD/)											
* CIL RETENTION	CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]										

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:		06K			ASA DATA BASELINE NEW					
	COMM AND 18006 TV CAMERA		DECK)							
LEAD ANALYST:	W.C. LONG			· .	,					
ASSESSMENT:										
CRITICAL FLIGH	ITY R	EDUNDA	NCY SCRE	EENS		CIL				
HDW/FU	_		В	C		115	M			
NASA [ 3 /3 IOA [ 3 /3	] [	]	[ ]	] [	]	[	] *			
COMPARE [ /	] [	]	[ ]	[	]	[	]			
RECOMMENDATIONS:	(If dif	ferent	from NA	ASA)						
[ /	<b>1</b>	]	[ ]	[	] (A	[ DD/D1	] ELETE)			
* CIL RETENTION	RATIONALE:	(If a	pplicabl	AI	EQUATE		]			
REMARKS: LOSS OF OUTPUT WORST CASE FAILURE MODE COVERS ALL FUNCTION CRITICALITIES IN AGREEMENT.										

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8006L BASELINE [ ]								
	COMM AND 8006 TV CAMERA			K)					
LEAD ANALYST:	W.C. LONG								
ASSESSMENT:									
	ITY R	EDUND	ANCY	SCRE	ens		CIL		
FLIGH HDW/FU		ВС				LTE	M		
NASA [ 3 /3 IOA [ 3 /3	] [	]	[	]	[	]	[	] *	
COMPARE [ /	] [	]	Į	]	[	]	[	]	
RECOMMENDATIONS:	(If dif	feren	t fr	om NAS	SA)				
[ /	] [	]	[	]	[	] (A	[ ] [D\D	] ELETE)	
* CIL RETENTION	RATIONALE:	(If	appl	icable	Al	DEQUATE DEQUATE			
REMARKS: LOSS OF OUTPUT WORST CASE FAILURE MODE COVERS ALL FUNCTIONS. CRITICALITIES IN AGREEMENT.									

ASSESSME ASSESSME NASA FME	rk-80	06 <b>M</b>			1	NASA BASE	LINE		]				
SUBSYSTE MDAC ID:		K T DEC	CK).										
LEAD ANA	LYS	r:	W.C.	LONG	;								
ASSESSME	ENT:												
			LITY	F	EDUN	DANC	SCR	EENS			CII		
		FLIGH DW/FU		A		F	В		2		TIE	iP1	
NASA IOA	[ :	3 /3	]	[	]	[	]	]	]		[	] *	k
COMPARE	[	/	]	[	]	[	]	[	]		[	]	
RECOMMEN	IDAT:	ions:	(1	f dif	fere	nt fi	om N	(ASA)					
	[	/	]	C	1	C	]	נ	]	(A)		. ] ELET	ΓE)
* CIL RI	eten:	rion	RATIO	NALE:	(If	appl	licab	1	ADEQU ADEQU				
REMARKS: LOSS OF CRITICAL	OUT					URE N	ODE	COVE	RS AL	L FU	NCTI	ONS.	•

ASSESSMENT ASSESSMENT NASA FMEA	ID:		<b>K-80</b> (	06N	NASA DATA: BASELINE [ ] NEW [ X ]							
SUBSYSTEM: MDAC ID: ITEM:		COMM A 8006 TV CAN				K)						
LEAD ANALY	ST:	W.C. I	LONG									
ASSESSMENT	?:											
CR	RITICAL		RI	EDUND	ANCY	SCRE	ens			CIL	wr	
	FLIGHT HDW/FUNC						ВС				•	
NASA [ IOA [	3 /3				[	]	[	]		] [	]	*
COMPARE [	. /	1	[	]	[	]	[	]		[	]	
RECOMMENDA	TIONS:	(If	dif	feren	t fr	om NA	SA)					
[	. /	]	[	]	[	]	[	]	(AI	[  D/D	-	TE)
* CIL RETE	ENTION 1	RATION	(If	appl:	icable	A	DEQUAT DEQUAT		[ X	]		
REMARKS: LOSS OF OU CRITICALIT			RE M	ODE C	OVER	S ALL	FUN	CTI	эис	•		

ASSESSMI	SSESSMENT DATE: 3/05/88 SSESSMENT ID: COMTRK-80060 ASA FMEA #: 3.2.3.2							-	<u> </u>	I <u>as</u> a Base:		[		
SUBSYSTIMDAC ID:		-		800	M AND 1 6 CAMERA			CK)						
LEAD AN	ALYS	ST	:	W.C	. LONG									
ASSESSMI	ENT:	:												
CRITICALITY REDUNDANCY SCREENS FLIGHT												CIL		
	ŀ			NC	A		E	В						
NASA IOA	[ [	3	/3 /3	]	[	]	[	]	נ נ	]		[	]	*
COMPARE	[		/	]	[	J	[	]	[	]		[	]	
RECOMME	NDAT	ri	ons:	(	If dif	fere	ent fr	com N	NASA)					
	[		/	]	[	]	[	]	[	]	(A)	[ DD/I		TE)
* CIL R	ETEI	VT.	ION	RATI	ONALE:	(If	appl	icak	7	ADEQU.			[ ]	
REMARKS LOSS OF CRITICA	OUT						URE M	ODE	COVE	RS AL	L FU	NCTI	ONS	<b>;.</b> .

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-800 3.2.4	06P			SA DATA BASELINI NEV		]				
MDAC ID:	COMM AND 3 8006 TV CAMERA		CK)								
LEAD ANALYST:	W.C. LONG										
ASSESSMENT:											
CRITICALITY REDUNDANCY SCREENS											
HDW/FU	_		В	C		ITE	rı				
NASA [ 3 /3 IOA [ 3 /3	] [	] [	]	[	]	[	] *				
COMPARE [ /	] [	] [	]	[	1	[	3				
RECOMMENDATIONS:	(If dif	ferent f	rom NA	SA)							
[ /	] [	1 . [	]	[	] (2	[ ADD/D	] ELETE)				
* CIL RETENTION	CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]										
	•										

ASSESSMENT DATE: 3/05/88 ASSESSMENT ID: COMTRK-80060 NASA FMEA #: 3.2.5							06Q			1	NASA BASE		[		
SUBSYSTEMDAC ID:				80	06		TRAC								
LEAD ANA	LYS	T	:	W.	c. :	LONG	;								
ASSESSME	ENT:	:													
	LIGH					DANC	CY SCE		_		CII				
	F	ID	W/FC	INC		A			В	(	2				
NASA IOA	]	3 3	/3 /3	]		[	]	]	]	[	]		[	]	*
COMPARE	[		/	1		[	3	[	]	C	]		[	]	
RECOMMEN	radı	ľI	ONS:	<b>:</b>	(If	dif	fere	nt f	from 1	NASA)					
	[		/	]		[	.]	[	]	(	]	(A	[ DD/I	) DEL	ETE)
* CIL RI		T.	ION	RAT	ION.	ALE:	(If	app	olicab	7	ADEQU ADEQU				
REMARKS: LOSS OF CRITICAL	נטס							URE	MODE	COVE	RS AL	L FU	NCT	CON	s.

ASSESSMENT I ASSESSMENT I NASA FMEA #	[D:	COMTR		07	NASA DATA: BASELINE [ ] NEW [ X ]							
SUBSYSTEM: MDAC ID: ITEM:		COMM 2 8007 TV CAL				K)						
LEAD ANALYS	r:	W.C.	LONG									
ASSESSMENT:												
		ITY	R	EDUN	DANCY	SCF	REENS			CIL		
	FLIGH DW/FU				В	в с				TIE	ırı	
NASA [ :	3 /3 3 /3				[	]	[	]		[	]	*
COMPARE [	/	1	[	]	[	]	[	]		[	]	
RECOMMENDAT	ions:	(If	dif	fere	nt fr	om 1	NASA)					
Ţ.	/	]	[	]	Ţ	]	[	]	(Al		]. ELE	
* CIL RETEN	(ADD/DELETE)  CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]											

ASSESSME ASSESSME NASA FME	NT I	D:	COMT	RK-80	07A			1	NASA BASE			]
SUBSYSTE MDAC ID: ITEM:			COMM 8007 TV C				CK)					
LEAD ANA	LYST	:	W.C.	LONG	;					•		
ASSESSME	NT:											
		ICAL LIGH	ITY	R	EDUN	DANC	SCR	REENS			CIL	
	_		NC	A		I	3 .	(			. IIE	.F1
NASA IOA	[ 3 [ 3	/3 /3	]	[	]	]	]	[	]		]	
COMPARE	[	/	]	[	]	[	]	[	]		[	]
RECOMMEN	DATI	ons:	(I	f dif	fere	nt fi	com N	ASA)				
	[	/	]	[	]	[	]	[	]	(A)	[ DD/D	] ELETE)
* CIL RE		ION	RATIO	NALE:	(If	appl	licab	7	DEQU.	ATE ATE	[ X	: ]
REMARKS: LOSS OF CRITICAL	OUTP					URE N	MODE	COVE	RS AL	L FUI	NCTI	ONS.

ASSESSMEN ASSESSMEN NASA FME	NT I	D:	3/05 COMT: 3.1.	RK-80	07B			N	IASA 1 BASE:		[	]	
SUBSYSTEM MDAC ID:	M:		COMM 8007 TV C			K D DEC	K)						
LEAD ANA	LYST	:	W.C.	LONG									
ASSESSME	NT:												
		_	ITY	R	EDUN	IDANCY	SCR	EENS			CII		
		LIGH W/FU		A	В				С			12.2	
NASA IOA	[ 3 [ 3	/3 /3				[	]	[	]		[	]	*
COMPARE	[	/	]	[	]	[	]	[	1		[	]	
RECOMMEN	DATI	ons:	(I	f dif	fere	nt fr	om N	IASA)					
	[	/	]	Γ	]	Ţ	]	[	]	(A)	[ DD/I		TE)
* CIL RE	TENT	NOI	RATIO	NALE:	(If	appl	icak	1	ADEQU ADEQU			<b>(</b> ]	

ASSESSME ASSESSME NASA FME	5/88 TRK-80 .3.2	07C			1	NASA BASE		[					
SUBSYSTE MDAC ID:			8007	M AND CAMERA			CK)						
LEAD ANA	LYS!	r:	W.C.	LONG	}								
ASSESSME	ENT:												
			LITY	R	EDUN	DANC	SCR	EENS			CII		
		FLIGH DW/FU		A	I	3	•	C		TIL	5P1		
NASA IOA	[ :	3 /3 3 /3	]	[	]	[	]	[	]		[	] <b>*</b>	:
COMPARE	[	/	]	[	1	[	]	ſ	]		[	]	
RECOMMEN	IDAT:	ions:	: (1	f dif	fere	nt fi	com N	ASA)					
	[	/	]	[	]	[	]	. [	]	(Al		] DELET	ĽE)
* CIL RE	TEN	rion	RATIO	NALE:	(If	appl	licab		ADEQU ADEQU			( )	
REMARKS: LOSS OF CRITICAL	OUT					URE N	ODE	COVE	RS AL	L FUI	ITO	cons.	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-800	COMTRK-8007D BASELINE [ ] 3.1.4 NEW [ X ]										
MDAC ID:	COMM AND 1 8007 TV CAMERA		K)									
LEAD ANALYST:	W.C. LONG											
ASSESSMENT:												
	ITY RI	EDUNDANCY	SCREE	NS	CIL							
FLIGHT HDW/FUNC A B C												
NASA [ 3 /3 IOA [ 3 /3	] [	] [	]	[ ]	]	] *						
COMPARE [ /	] [	] [	]	[ ]	[	]						
RECOMMENDATIONS:	(If dif:	ferent fr	om NAS	A)								
[ /	] [-	] [	]	[ ]	[ (ADD/D	] ELETE)						
* CIL RETENTION	RATIONALE:	(If appl		ADEQUAT:	E [ X	: ] ]						
	INADEQUATE [ ]											

ASSESSME ASSESSME NASA FME	NT	II	):		MTRK-8007E BASELINE [								[ ]	
SUBSYSTE MDAC ID: ITEM:				COMM 8007 TV C			CK ID DEC	K)						
LEAD ANA	LYS	T:	:	W.C.	LONG	}								
ASSESSME	NT:	:												
	CRI				R	EDUN	IDANCY	SCI	REENS			CII		
	F		JIGH V/FU		A		В		C			111	5PI	
NASA IOA	[	3	/3 /3	]	[	]	[	]	[	]		[	]	*
COMPARE	[		/	]	[	]	[	]	[	]		[	]	
RECOMMEN	DA'I	ric	ns:	(I	f dif	fere	ent fr	om 1	NASA)					
	[		1.	]	[	]	[	]	[	]	(Al	[ DD/I		ETE)
* CIL RE	TEN	T	ON :	RATIO	NALE:	(If	appl	icak	A		ATE ATE	_		
REMARKS: LOSS OF CRITICAL	ַטס						LURE M	ODE	COVER	S AL	L FUI	(T)	ONS	5.

ASSESSME ASSESSME NASA FME	NT	II	<b>)</b> :		TRK-80	07F					DATA LINE NEW	[	x ]	
SUBSYSTE MDAC ID:	М:			800	M AND 7 CAMERA			K)						
LEAD ANA	LYS	ST:		W.C	LONG	;								
ASSESSME	NT:	:												
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM														
	I			NC	A		В		С			LT	7W	
NASA IOA	[	3	/3 /3	]	[	]	[ [	]	[	]		[	]	*
COMPARE	[		/	1	. [	]	[	]	[	]		[	]	
RECOMMEN	DA'	ric	ons:	(	If dif	fere	ent fr	om 1	NASA)					
	Ţ		1.	]	[	. ]	[	]	Ţ	]	(A)	[ DD/1	] DELI	ETE)
* CIL RE	TEI	T	ON	RATI	ONALE:	(If	appl	ical	A		ATE ATE		x ]	
REMARKS: LOSS OF CRITICAL							LURE M	ODE	COVER	s al	L FU	NCT	IONS	5.

ASSESSME ASSESSME NASA FME	IT I	D:		RK-80	07G			1	NASA BASE		[	]	
SUBSYSTE MDAC ID:			8007	AND CAMERA			CK)						
LEAD ANA	LYST	r:	W.C.	LONG	;								
ASSESSME	ENT:												
		ricai Fligh	LITY	F	REDUN	DANC	SCR	REENS			CII		
			INC	2		I	3	(	2				
NASA IOA	[ :	3 /3	]	[	]	[ [	]	]	]		[	]	*
COMPARE	[ .	/	]	1	]	Γ	]	[	]		[	]	
RECOMMEN	IDAT:	cons:	(1	f dif	fere	nt fi	com N	(ASA					
	[	/	j	C	]	[	]	[	]	(A	[ DD/[	] DELE	TE)
* CIL RE	TEN	rion	RATIO	NALE:	(If	app]	licab		ADEQU ADEQU			[ ] ]	
REMARKS: LOSS OF CRITICAL	OUT					URE 1	MODE	COVE	RS AL	L FU	NCTI	ONS	•

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-800	COMTRK-8007H BASELINE [ ] 3.2.3.1 NEW [ X ]								
	COMM AND 1 8007 TV CAMERA		ECK)							
LEAD ANALYST:	W.C. LONG									
ASSESSMENT:										
	ITY RI	EDUNDANC	CY SCRE	ENS		CIL	M			
FLIGH HDW/FU			В	С		1111	••			
NASA [ 3 /3 IOA [ 3 /3	] [	] [	]	[	]	[ [	] * ]			
COMPARE [ /	] [	] [	1	[	1	[	]			
RECOMMENDATIONS:	(If dif:	ferent :	from NA	SA)						
[ /	] [	] [	]	[ .	] (A	[ .DD/D:	] ELETE)			
* CIL RETENTION	RATIONALE:	(If app	plicabl	ΑI	DEQUATE DEQUATE	-	]			
REMARKS: LOSS OF OUTPUT WORST CASE FAILURE MODE COVERS ALL FUNCTIONS. CRITICALITIES IN AGREEMENT.										

ASSESSMI ASSESSMI NASA FMI	ENT	II	<b>)</b> :	COM	TRK-80	071				NASA BASE	DATA LINE NEW	[	]	
SUBSYSTEMDAC ID:				800				CK)						
LEAD ANA	LYS	T:	:	W.C	. LONG	;								
ASSESSME	ENT:	:												
	CRI			LITY	F	REDUN	DANC	SCR	REENS			CII		
	F		LIGE V/FU	INC	7	<b>.</b>	I	3	(	C		111	214	
NASA IOA	[	3	/3 /3	]	[	]	[	]	[	]		[	]	*
COMPARE	[		/	]	[	]	[	]	. [	]		[	]	
RECOMMEN	radi	ľIC	ons:	(	If dif	fere	nt fi	com N	IASA)					
	[		/	]	[	]	[	]	[	j	(A		) DELE	TE)
* CIL RE	ETEN	T	EON	RATI	ONALE:	(If	app	licab		ADĒQU ADEQU	ATE ATE	[ ]	K ]	
REMARKS: LOSS OF CRITICAL	CUO						URE 1	ODE	COVE	RS AL	L FU	NCT	cons	•

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:		NASA DATA: 007J BASELINE [ ] NEW [ X ]							
<del>-</del>	COMM AND ' 8007 TV CAMERA		DECK	<b>:</b> )					
LEAD ANALYST:	W.C. LONG								
ASSESSMENT:									
	ITY R	EDUNDA	NCY	SCREE	ens		CIL		
FLIGH HDW/FU			В		C		III.	М	
NASA [ 3 /3 IOA [ 3 /3	] [	]	[	]	[	]	]	] <b>*</b>	
COMPARE [ /	] [	1	[	]	[	]	[	]	
RECOMMENDATIONS:	(If dif	ferent	fro	om NAS	SA)				
[ /	] [	]	[	]	[	] (2	[ DD/D	] ELETE)	
* CIL RETENTION	RATIONALE:	(If a	ppli	cable	ΑI	DEQUATE DEQUATE		]	
REMARKS: LOSS OF OUTPUT W CRITICALITIES IN			RE MC	DE CO	OVERS	S ALL FU	JNCTI	ons.	

ASSESSME ASSESSME NASA FME	ENT I	D:		rk-8	007K			1	NASA BASE	LINE		x ]	
SUBSYSTE MDAC ID:			8007				CK)						
LEAD ANA	LYSI	? <b>:</b>	W.C.	LONG	G								
ASSESSME	ENT:												
		ICAI	LITY		REDUN	IDANC	Y SCF	REENS			CII		
		W/FU		2	A	1	3	(	С		111	2141	
NASA IOA	[ 3	/3	]	[	]	[	]	[	]		[	]	*
COMPARE	[	/	]	[	]	[	]	[	]		[	]	
RECOMMEN	IDATI	ONS:	(3	f di	ffere	nt fi	com N	ASA)					
	[	/	)	[	]	[	]	[	]		[ DD/[		
* CIL RE	TENT	NOI	RATIO	NALE:	: (If	app	licab	1	ADEQU ADEQU			( ] 1	
REMARKS: LOSS OF CRITICAL	OUTF					URE 1	MODE				-	•	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-800	7 <b>L</b>		NASA DA BASELI N		]
	COMM AND TO 8007 TV CAMERA		K)			
LEAD ANALYST:	W.C. LONG					
ASSESSMENT:						
	ITY RE	DUNDANCY	SCREENS		CIL	
FLIGH HDW/FU		В		С	115	M
NASA [ 3 /3 IOA [ 3 /3	] [	] [	] [	]	]	] <b>*</b>
COMPARE [ /	] [	] [	] [	]	Γ	]
RECOMMENDATIONS:	(If diffe	erent fr	om NASA)			
	1 . [	] [	] [	]	[ (ADD/D	
* CIL RETENTION	RATIONALE:	(If appl	•	ADEQUAT		]
REMARKS: LOSS OF OUTPUT W CRITICALITIES IN		AILURE M			_	ons.

ASSESSMI ASSESSMI NASA FMI	ENT I	D:	COMTRE		07 <b>M</b>				ASA D BASEI		[	
SUBSYSTI MDAC ID: ITEM:			COMM A 8007 TV CAN			DECI	K)					
LEAD AN	ALYST	:	w.c. I	LONG								
ASSESSMI	ENT:											
	+		TY	RI	EDUNDA	ANCY	SCREI	ens			CIL	ur.
	_	LIGHT W/FUI	_	A		В		C	!		112	1
NASA IOA	[ 3 [ 3	/3 /3	]	[	]	[	]	[	]		[	] * ]
COMPARE	[	/	1	C	]	ľ	]	[	1		[	]
RECOMME	NDATI	ons:	(If	difi	ferent	t fro	om NAS	SA)				
	ι.	/	]	[	1	[	]	C	]	(AI	[ D/DI	] ELETE)
* CIL RI	ETENT	ION I	RATIONA	ALE:	(If a	appl	icable	A	DEQUA			
REMARKS LOSS OF	OUTP				FAILUI	RE MO	ODE C	OVER	S ALI	FUN	CTI	ons.

	3/05/88 COMTRK-800 3.3.3.1	07N			SA DATA ASELINE NEW	-	]
	COMM AND 1 8007 TV CAMERA		CK)				
LEAD ANALYST:	W.C. LONG						
ASSESSMENT:							
CRITICAL FLIGH	ITY RI	EDUNDANC	Y SCRE	ENS		CIL	MT.
HDW/FU	_		В	С			· <b>-</b>
NASA [ 3 /3 IOA [ 3 /3	] [	] [	]	[	]	]	] *
COMPARE [ /	] [	] [	]	[	]	[	]
RECOMMENDATIONS:	(If dif:	ferent f	rom NA	SA)			
[ /	] [.	] [	. ]	[	] (A	[ DD/D1	] EĻETE)
* CIL RETENTION	RATIONALE:	(If app	licable	AL	EQUATE EQUATE		]
REMARKS: LOSS OF OUTPUT W CRITICALITIES IN			MODE C	OVERS	ALL FU	NCTI(	ons.

ASSESSMI ASSESSMI NASA FMI	ENT I	D:	COMTRI	K-800	070				ASA DAT BASELIN NE			
SUBSYSTIMDAC ID			COMM A 8007 TV CAL					-				·* • .•
LEAD AND	ALYST	:	W.C. 1	LONG								
ASSESSM	ENT:		-									
			ITY	RI	EDUNDA	MCY	SCREE	ens		CIL		
	_	LIGHT		A		В		c	e se tivo jou		M	
NASA IOA	[ 3	/3 /3	]	[	]	[	]	[	]	[	]	*
COMPARE	ĺ	/	]	[	]	[	]	[	]	[	]	
RECOMME	NDATI	ons:	(If	difi	ferent	fre	om NAS	SA)				
	[	<b>/</b> .	]		1	[	1	[	] . (	[ ADD/D	ELF	ETE)
* CIL R		ION 1	RATION	ALE:	(If a	appl	icable	A	DEQUATE DEQUATE	_		
REMARKS LOSS OF	OUTP				FAILUE	RE MO	ODE CO	OVER	S ALL F	UNCTI	ONS	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-80	07P			ASA DATA BASELINI NEV		]
	COMM AND S 8007 TV CAMERA		CK)				
LEAD ANALYST:	W.C. LONG						
ASSESSMENT:							
	ITY RI	EDUNDANC	Y SCRE	ENS		CIL	
FLIGH HDW/FU			В	С		IIE	M
NASA [ 3 /3 IOA [ 3 /3	] [	] [	]	]	]	[	] <b>*</b>
COMPARE [ /	] [	] [	]	[	]	[	]
RECOMMENDATIONS:	(If dif	ferent f	rom NA	SA)			
[ /	] [	] [	]	[	] (2	[ ADD/D	] ELETE)
* CIL RETENTION	RATIONALE:	(If app	licabl	A	DEQUATE DEQUATE		
REMARKS: LOSS OF OUTPUT W CRITICALITIES IN			MODE C	OVER	S ALL F	UNCTI	ons.

ASSESSME ASSESSME NASA FME	NΤ	I	D:	COM	TRK-80	07Q			ì		DATA: ELINE NEW	[	]	
SUBSYSTE MDAC ID: ITEM:				800	M AND 7 CAMERA			:K)						
LEAD ANA	LYS	ST	:	W.C	. LONG									
ASSESSME	NT:	:												
	CR:		ICAI LIGI	LITY	R	EDUI	IDANCY	sci	REENS			CII		
	I			JNC	A		В	3	(	2		111	.r·ı	
NASA IOA	[	3 3	/3 /3	]	[	]	[ [	]	[ [	]		[	]	*
COMPARE	[		/	]	C	]	[	]	[	]		[	]	
RECOMMEN	DAT	ri	ONS:	; (	If dif	fere	ent fr	om 1	NASA)					
	[		/	]	C	]	[	]	ſ	. ]	(AI	[ DD/I	] ELE	TE)
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ] INADEQUATE [ ]														
LOSS OF	REMARKS: LOSS OF OUTPUT WORST CASE FAILURE MODE COVERS ALL FUNCTIONS. CRITICALITIES IN AGREEMENT.													

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8008 2.1.1	1	NASA DATA: BASELINE NEW	
SUBSYSTEM:		) P/L BAY)		
LEAD ANALYST:	W.C. LONG			
ASSESSMENT:				
FLIGH'				CIL ITEM
HDW/FU	NC A	В	С	
NASA [ 2 /2 IOA [ 2 /1R	] [ ]   ] [ P ]	P ] [	p ]	[ X ] *
COMPARE [ /N	] [N]	[и]	и ]	[ ]
RECOMMENDATIONS:	(If different	from NASA)		
[ 2 /1R	] [ P ]	[ P ] [	P ] (AI	[ ] DD/DELETE)
* CIL RETENTION	RATIONALE: (If a		ADEQUATE IADEQUATE	
CAPABILITY TO PE MONITORING OF P/ VEHICLE AND CREW	D RESULT IN LOSS RFORM CCTV FUNCT L BAY DOOR LATCH UNLIKE REDUND C CREW VISUAL INS	ION COULD P ES RESULTIN ANCY EXISTS	PREVENT RMS IG IN POSS S VIA CREW	S STOW AND IBLE LOSS OF WINDOW

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-80	08A		NASA DATA BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	COMM AND 1 8008 TV CAMERA		P/L BAY)		
LEAD ANALYST:	W.C. LONG				
ASSESSMENT:					
CRITICAL FLIGH HDW/FU			CY SCREEN B	ıs C	CIL ITEM
HDW/FO.	NC A		Ь	C	
NASA [ 2 /2 IOA [ 2 /1R	] [ ] [ P	] [	P ] [	P ]	[ X ] * [ X ]
COMPARE [ /N	] [ N	] [	и ј [	иј	[ , ]
RECOMMENDATIONS:	(If dif:	ferent f	from NASA	۲)	
[ 2 /1R	] [ P	] [	P ] [		[ ] DD/DELETE)
* CIL RETENTION	RATIONALE:	(If app	•	ADEQUATE NADEQUATE	[ X ]
REMARKS:					
LOSS OF TVC COUL					
CAPABILITY TO PE					
MONITORING OF P/					
VEHICLE AND CREW	. UNLIKE I	REDUNDAN	CY EXIST	S VIA CREW	WINDOW
VIEWING, EVA AND COAS FOR	CDEW VICIO	AT THEOR	COTON AN	D DMC TEMMS	CON TO ALTOW
P/L BAY DOOR CLOS		JU THOPE	CITON AN	D KNO UEITI	LECK TO ALLOW

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8008B		NASA DATA: BASELINE NEW			
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8008 TV CAMERA A (FW	ND P/L BAY)				
LEAD ANALYST:	W.C. LONG					
ASSESSMENT:						
CRITICAL FLIGH		ANCY SCREENS		CIL ITEM		
HDW/FU	NC A	В	С			
NASA [ 2 /2 IOA [ 2 /1R	] [ ] ] [ P ]	[ P ] [	P ]	[ X ] * [ X ]		
COMPARE [ /N	] [N]	[ N ] [	n j	[ ]		
RECOMMENDATIONS:	(If different	from NASA)	)			
[ 2 /1R	] [P]	[ P ] [	P ] (AI	[ ] DD/DELETE)		
* CIL RETENTION	RATIONALE: (If a		ADEQUATE NADEQUATE	[ X ]		
LOSS OF TVC COUL CAPABILITY TO PE MONITORING OF P/VEHICLE AND CREW VIEWING, EVA AND COAS FOR	INADEQUATE [ ] REMARKS: LOSS OF TVC COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING OF P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE REDUNDANCY EXISTS VIA CREW WINDOW					

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8008C 2.1.5		NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8008 TV CAMERA A (FW			r
LEAD ANALYST:	W.C. LONG			
ASSESSMENT:				
FLIGH	ITY REDUNDA I NC A		C	CIL ITEM
NASA [ 2 /2 IOA [ 2 /1R	] [ p ]	[ <sub>P</sub> ]	P ]	[ X ] * [ X ]
COMPARE [ /N	] [ N ]	[и]	<b>N</b> ]	[ ]
RECOMMENDATIONS:	•	•		
[ 2 /1R	] [P]	[ P ] [	P ] . (AD	[ ] D/DELETE)
* CIL RETENTION :	RATIONALE: (If a		ADEQUATE ADEQUATE	
LOSS OF TVC COUL CAPABILITY TO PE MONITORING OF P/VEHICLE AND CREW	RFORM CCTV FUNCT L BAY DOOR LATCH	TION COULD P HES RESULTIN	REVENT RMS G IN POSSI	STOW AND BLE LOSS OF
VIEWING, EVA AND COAS FOR P/L BAY DOOR CLO		SPECTION AND	RMS JETTI	SON TO ALLOW

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8008D	A: E [ ] W [ X ]				
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8008 TV CAMERA A (FWD	P/L BAY)				
LEAD ANALYST:	W.C. LONG					
ASSESSMENT:						
CRITICAL FLIGH HDW/FU		CY SCREENS  B C	CIL ITEM			
NASA [ 2 /2 IOA [ 2 /1F	[ ] [ k ] [ P ] [	P ] [ P ]	[ X ] * [ X ]			
COMPARE [ /N	] [N] [	иј [иј	[ ]			
RECOMMENDATIONS:	(If different	from NASA)				
[ 2 /1F	R] [P] [	P] [P]	[ ] ADD/DELETE)			
* CIL RETENTION	* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]					
CAPABILITY TO PE MONITORING OF P/ VEHICLE AND CREW VIEWING,	RFORM CCTV FUNCTI L BAY DOOR LATCHE U. UNLIKE REDUNDA	OF MISSION. LOSS ON COULD PREVENT R S RESULTING IN POS NCY EXISTS VIA CRE	OF ALL MS STOW AND SIBLE LOSS OF W WINDOW			
P/L BAY DOOR CLO	SURE.					

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-80 2.2.2	008E		NASA DATA BASELINE NEW	[ <b>x</b> ]
SUBSYSTEM: MDAC ID: ITEM:	COMM AND 8008 TV CAMERA		P/L BAY)		
LEAD ANALYST:	W.C. LONG	<del>;</del>			
ASSESSMENT:					
CRITICAL FLIGH HDW/FU			CY SCREENS B	s c	CIL ITEM
NASA [ 2 /2 IOA [ 2 /1R	] [ :] [ F	] [	P ] [	p ]	[ X ] *
COMPARE [ /N	] [ ]	[ ]	и ] [	<b>N</b> ]	[ ]
RECOMMENDATIONS:	(If dif	ferent f	rom NASA	)	
[ 2 /1R	: ] [ <b>I</b>	9 ] [	P ] [	P ] (Al	[ ] DD/DELETE)
* CIL RETENTION	RATIONALE:	(If app	-	ADEQUATE NADEQUATE	[ X ]
REMARKS: LOSS OF TVC COUL CAPABILITY TO PE MONITORING OF P/ VEHICLE AND CREW VIEWING, EVA AND COAS FOR	RFORM CCTV L BAY DOOF UNLIKE	FUNCTION FUN	OF MISSION ON COULD IN S RESULTING NCY EXISTS	N. LOSS OF PREVENT RMS NG IN POSS S VIA CREW	F ALL S STOW AND IBLE LOSS OF WINDOW
P/L BAY DOOR CLC	SURE.				

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-	8008F		NASA DATA BASELINE NEW	· · ·
	COMM AND 8008 TV CAME	D TRACK RA A (FWD	P/L BAY	)	
LEAD ANALYST:	W.C. LO	NG			
ASSESSMENT:					
CRITICAL		REDUNDAN	CY SCREE	NS	CIL ITEM
FLIGH HDW/FU	_	A	В	С	IIEM
NASA [ 2 /2 IOA [ 2 /1R	] [	P ] [	p ]	[ ] [ P ]	[ X ] * [ X ]
COMPARE [ /N	) [	и ] [	и ј	[ N ]	[ ]
RECOMMENDATIONS:	(If d	ifferent	from NAS	A)	
[ 2 /1R		P ] [	P ]		[ ] DD/DELETE)
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]					
INADEQUATE [ ]  REMARKS: LOSS OF TVC COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING OF P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE REDUNDANCY EXISTS VIA CREW WINDOW VIEWING,					

EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8008G 2.2.5	NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8008 TV CAMERA A (FWD	P/L BAY)	
LEAD ANALYST:	W.C. LONG		
ASSESSMENT:			
FLIGH			CIL ITEM
·	NC A		
NASA [ 2 /2 IOA [ 2 /1R	] [ P ] [	P ] [ P ]	[ X ] * [ X ]
COMPARE [ /N	J [ 14 ] [	и ] [и]	[ ]
RECOMMENDATIONS:	(If different	from NASA)	
[ 2 /1R	] [P] [	P ] [ P ] (AD	[ ] D/DELETE)
* CIL RETENTION	RATIONALE: (If app	plicable) ADEQUATE INADEQUATE	
CAPABILITY TO PE MONITORING OF P/ VEHICLE AND CREW VIEWING.	RFORM CCTV FUNCTION L BAY DOOR LATCHES UNLIKE REDUNDANCE CREW VISUAL INSP	OF MISSION. LOSS OF ON COULD PREVENT RMS S RESULTING IN POSSINCY EXISTS VIA CREW	SIOW AND BLE LOSS OF WINDOW

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8008H		ASA DATA: BASELINE [ NEW [	x ]
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8008 TV CAMERA A (FW	D P/L BAY)		
LEAD ANALYST:	W.C. LONG			
ASSESSMENT:				
CRITICAL FLIGH HDW/FU	T	NCY SCREENS B C	I	CL CEM
NASA [ 2 /2 IOA [ 2 /1R	] [ ] [ P ]	[ ] [ P	] [	x ] * x ]
COMPARE [ /N	j [ N ]	[и] [и	[	]
RECOMMENDATIONS:	(If different	from NASA)		
[ 2 /1R	[ P ]	[ P ] [ F	P] [ (ADD,	] /DELETE)
* CIL RETENTION	RATIONALE: (If a	pplicable) A INA	ADEQUATE [	x ]
CAPABILITY TO PE MONITORING OF P/ VEHICLE AND CREW VIEWING.	D RESULT IN LOSS RFORM CCTV FUNCT L BAY DOOR LATCH	OF MISSION. FION COULD PRIES RESULTING ANCY EXISTS	LOSS OF A REVENT RMS S IN POSSIB VIA CREW W	ALL STOW AND LE LOSS OF INDOW
EVA AND COAS FOR	CREW VISUAL INS	PECTION AND	RMS JETTIS	ON TO ALLO

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-	8008I		NASA DATA: BASELIÑĒ NEW	
SUBSYSTEM: MDAC ID: ITEM:	COMM ANI 8008 TV CAMEI	D TRACK RA A (FWD	P/L BAY)		
LEAD ANALYST:	W.C. LO	NG			
ASSESSMENT:					
CRITICAL FLIGH HDW/FU	T	REDUNDANO A	CY SCREEN	s C	CIL ITEM
NASA [ 2 /2 IOA [ 2 /1R	] [	P ] [	P ] [	P ]	[ X ] *
COMPARE [ /N	] [	и ] [	и ] [	N ]	[ ]
RECOMMENDATIONS:	(If d	ifferent :	from NASA	)	
[ 2 /1R	] [	P ] [	P ] [	P ] (AI	[ ] DD/DELETE)
* CIL RETENTION	RATIONALI	E: (If app		ADEQUATE NADEQUATE	
REMARKS:					•
LOSS OF TVC COUL					
CAPABILITY TO PE					
MONITORING OF P/					
VEHICLE AND CREW	. UNLIKI	E KEDUNDAI	NCX EXIST	5 VIA CREW	MINDOM
VIEWING, EVA AND COAS FOR	CREW VI	SIIAT, TNSDI	CTTON AN	D RMS TETT	SON TO ALLOW
D/I BAY DOOP CLO		JUMI INDE	JOLLON MI.	D 1010 01111	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8008J	MTRK-8008J BASELINE [ ]							
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8008 TV CAMERA A (FW	ID P/L BAY)							
LEAD ANALYST:	W.C. LONG								
ASSESSMENT:			-						
CRITICAL FLIGH		CIL ITEM							
HDW/FU		В	С						
NASA [ 2 /2 IOA [ 2 /1R	] [ p ]	[ P ] [ I	P ]	[ X ] * [ X ]					
COMPARE [ /N	] [N]	[ N ] [ 1	и ]	[ ]					
RECOMMENDATIONS:	(If different	from NASA)							
[ 2 /1R	] [P]	[P] [3	P ] (AD	[ ] DD/DELETE)					
* CIL RETENTION	RATIONALE: (If a	į	ADEQUATE ADEQUATE						
REMARKS: LOSS OF TVC COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING OF P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE.									

SUBSYSTEM: COMM AND TRACK MDAC ID: 8008 ITEM: TV CAMERA A (FWD P/L BAY)  LEAD ANALYST: W.C. LONG  ASSESSMENT:  CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM HDW/FUNC A B C  NASA [ 2 /2 ] [ ] [ ] [ ] [ X ] * IOA [ 2 /1R ] [ P ] [ P ] [ P ] [ X ]  COMPARE [ /N ] [ N ] [ N ] [ N ] [ N ] [ ]  RECOMMENDATIONS: (If different from NASA)  [ 2 /1R ] [ P ] [ P ] [ P ] [ P ] [ ADD/DELETE)  * CIL RETENTION RATIONALE: (If applicable)  * CIL RETENTION RATIONALE: (If applicable)  REMARKS: LOSS OF TVC COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING OF P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE.	ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:			NASA DATA: BASELINE NEW	;- [ X ]
CRITICALITY REDUNDANCY SCREENS CIL ITEM HDW/FUNC A B C  NASA [ 2 /2 ] [ ] [ ] [ ] [ X ] * IOA [ 2 /1R ] [ P ] [ P ] [ P ] [ X ] *  COMPARE [ /N ] [ N ] [ N ] [ N ] [ N ] [ ] [ X ] *  RECOMMENDATIONS: (If different from NASA)  [ 2 /1R ] [ P ] [ P ] [ P ] [ P ] [ ADD/DELETE)  * CIL RETENTION RATIONALE: (If applicable)  * CIL RETENTION RATIONALE: (If applicable)  REMARKS: LOSS OF TVC COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING OF P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW	MDAC ID:	8008		)	
CRITICALITY REDUNDANCY SCREENS  FLIGHT HDW/FUNC A B C  NASA [ 2 /2 ] [ ] [ ] [ ] [ X ] * IOA [ 2 /1R ] [ P ] [ P ] [ P ] [ X ]  COMPARE [ /N ] [ N ] [ N ] [ N ] [ N ] [ ]  RECOMMENDATIONS: (If different from NASA)  [ 2 /1R ] [ P ] [ P ] [ P ] [ P ] [ ADD/DELETE)  * CIL RETENTION RATIONALE: (If applicable)  REMARKS: LOSS OF TVC COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING OF P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW	LEAD ANALYST:	W.C. LONG			
FLIGHT HDW/FUNC A B C  NASA [ 2 /2 ] [ ] [ ] [ ] [ X ] *  IOA [ 2 /1R ] [ P ] [ P ] [ P ] [ X ]  COMPARE [ /N ] [ N ] [ N ] [ N ] [ N ] [ ]  RECOMMENDATIONS: (If different from NASA)  [ 2 /1R ] [ P ] [ P ] [ P ] [ ] (ADD/DELETE)  * CIL RETENTION RATIONALE: (If applicable)  * CIL RETENTION RATIONALE: (If applicable)  REMARKS: LOSS OF TVC COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING OF P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW	ASSESSMENT:				
NASA [ 2 /2 ] [ ] [ ] [ ] [ X ] * IOA [ 2 /1R ] [ P ] [ P ] [ P ] [ X ]  COMPARE [ /N ] [ N ] [ N ] [ N ] [ N ] [ ]  RECOMMENDATIONS: (If different from NASA)  [ 2 /1R ] [ P ] [ P ] [ P ] [ ] (ADD/DELETE)  * CIL RETENTION RATIONALE: (If applicable)  * CIL RETENTION RATIONALE: (If applicable)  REMARKS: LOSS OF TVC COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING OF P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW	FLIGHT	r			
COMPARE [ /N ] [ N ] [ N ] [ N ] [ ] RECOMMENDATIONS: (If different from NASA)  [ 2 /1R ] [ P ] [ P ] [ P ] [ ] (ADD/DELETE)  * CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ X ]  REMARKS: LOSS OF TVC COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING OF P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW	HDW/FUI	NC A	В	C	
RECOMMENDATIONS: (If different from NASA)  [ 2 /1R ] [ P ] [ P ] [ P ] [ ] (ADD/DELETE)  * CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ] INADEQUATE [ ]  REMARKS: LOSS OF TVC COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING OF P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW	NASA [ 2 /2 IOA [ 2 /1R	] [ p ]	[ P ] [	[ P ]	[ X ] * [ X ]
[ 2 /1R ] [ P ] [ P ] [ P ] [ ] (ADD/DELETE)  * CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ] INADEQUATE [ ]  REMARKS: LOSS OF TVC COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING OF P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW	COMPARE [ /N	] [ N ]	[и]	[и]	[ ]
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ] INADEQUATE [ ]  REMARKS: LOSS OF TVC COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING OF P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW	RECOMMENDATIONS:	(If different	from NASA	7)	
ADEQUATE [ X ] INADEQUATE [ ] REMARKS: LOSS OF TVC COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING OF P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW	[ 2 /1R	] [P]	[P] [	[ P ] (AI	
LOSS OF TVC COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING OF P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW		RATIONALE: (If a			[ X ] [ ]
	LOSS OF TVC COULD CAPABILITY TO PER MONITORING OF P/I VEHICLE AND CREW VIEWING,	RFORM CCTV FUNCT L BAY DOOR LATCH . UNLIKE REDUNI	TION COULD HES RESULTI DANCY EXIST	PREVENT RMS ING IN POSSI IS VIA CREW	S STOW AND BLE LOSS OF WINDOW
			SPECTION AN	ID RMS JETTI	SON TO ALLOW

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:		COMTRK-8008L BASELINE								
	8008	OMM AND TRACK 008 V CAMERA B (KEEL/EVA)								
LEAD ANALYST: W.C. LONG										
ASSESSMENT:										
CRITICAL FLIGH	ITY RE	DUNDANCY	SCREENS	S	CIL ITEM					
HDW/FU		В		С						
NASA [ 3 /1R IOA [ 2 /1R		] [ P ] [ P	] [	P ] P ]	[ x ] *					
COMPARE [ N /	] [	] [	] [	]	[ N ]					
RECOMMENDATIONS:	(If diff	erent fro	om NASA	)						
[ /	] [	] [	] [	] (A)	[ ] DD/DELETE)					
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]										
REMARKS: LOSS OF OUTPUT C FUNCTION WAS ANA		VC FUNCT	ions.	ONLY THE W	ORST CASE					

ASSESSME ASSESSME NASA FME	NT	I	D:	3/05/8 COMTRI 2.2.4	88 (-8	300	M8(						ASA DA BASELI N					
SUBSYSTE MDAC ID: ITEM:				8008	MM AND TRACK 08 CAMERA B (KEEL/EVA)													
LEAD ANALYST: W.C. LONG																		
ASSESSME	NT	:																
		F	LIGH				DUNI	DAI		SCR	EENS				C]	[L [EM	Ī	
	J	HD	N/ FUI	4C		A			В			С						
NASA IOA	]	3 2	/1R /1R	]	[ [	P P	]		[ P	]	[	P P	]		]	x	]	*
COMPARE	[	N	/	]	[		]		[	]	[		]		[	N	]	
RECOMMEN	'DA'	ΓI	ons:	(If	di	ff	ere	nt	fr	om N	 ASA)							
	[		/	]	[		]		[	]	[		1	(AD	[ D/	/DE	] ELE	TE)
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ] INADEQUATE [ ]																		
REMARKS: LOSS OF OUTPUT COVERS ALL TVC FUNCTIONS. ONLY THE WORST CASE FUNCTION WAS ANALYSED.																		

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-80	DMTRK-8008N BASELINE								
	8008	OMM AND TRACK 008 V CAMERA B (KEEL/EVA)								
LEAD ANALYST:	W.C. LONG									
ASSESSMENT:										
CRITICAL FLIGH	ITY I	REDUNDAN	CY SCREE	ens	CIL ITEM					
HDW/FU		A	В	C						
NASA [ 3 /1R IOA [ 2 /1R	] []	P ] [ P ] [	P ] P ]	[ P ] [ P ]	[ x ] *					
COMPARE [ N /	] [	] [	]	[ ]	[ N ]					
RECOMMENDATIONS:	(If di	fferent	from NAS	SA)						
[ /	] [	] [	]	[ ]	[ ] ADD/DELETE;					
* CIL RETENTION	RATIONALE	: (If ap	plicable	∍) ADEQUATE INADEQUATE	•					
REMARKS: LOSS OF OUTPUT OF FUNCTION WAS ANA		TVC FUN	CTIONS.	ONLY THE	WORST CASE					

ASSESSME ASSESSME NASA FME	NT	I	D:	COMT	RK-8	300	080	)							DA ELI N		[			
SUBSYSTE MDAC ID: ITEM:				COMM 8008 TV C					EL	/ F	EVA)									
LEAD ANA	LY:	ST	:	w.c.	LO	1G														-
ASSESSME	NT	:																		
		F	LIGH'	ITY T NC		RI A		INDA		Y B	SCR	EENS	S C					IL Pei		
	•		17 1 0			•				_			Ŭ							
NASA IOA	]	3 2	/3 /1R	]	[	P	]		] [	P	]	[	P	]			]	x	]	*
COMPARE	Ĺ	N	/N	]	ι	N	]		[	N	]	[	N	]			[	N	]	
RECOMMEN	DA'	ric	ONS:	(I:	f di	Ĺfi	fer	ent	f	ro	m N	ASA)	· .							
	[		/	]	[		]		[		]	[		]		(Aľ	] ,ac	/DI	] ELI	ETE)
* CIL RE	וםת	יים.	TON 1	ו∧דיייגם	JATI	7.	/ T	f a	nn	1 :	cah	۱۵۱								
	1 121	. L.	LON	RATIO	ANTI	•	\ _	. I. CI.	բբ		cab				UAT UAT			X	]	
REMARKS: LOSS OF FUNCTION						. 7	ľVC	FU.	NC	TI	ONS	. (	INC	ĽΥ	THE	WC	RS	3T	CZ	ASE

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:		COMTRK-8008P BASELINE								
	COMM AND TRACK 8008 TV CAMERA B (K									
LEAD ANALYST:	LYST: W.C. LONG									
ASSESSMENT:										
CRITICAL FLIGH		DANCY SCREED	NS	CIL ITEM						
HDW/FU		В	С							
NASA [ 3 /3 IOA [ 2 /1R		[ ] [ P ]	[ ] [ P ]	[ x ] *						
COMPARE [ N /N	] [N]	[и]	[и]	[ N ]						
RECOMMENDATIONS:	(If differer	nt from NAS	A)							
ι /	] [ ]	[ ]	[ ] (A	[ DD/DELETE;						
* CIL RETENTION	RATIONALE: (If		) ADEQUATE INADEQUATE	[ X ]						
REMARKS: LOSS OF OUTPUT OF FUNCTION WAS ANA		FUNCTIONS.	ONLY THE W	ORST CASE						

NASA DATA:

] * ]
]
] LETE)
] ]
CASE

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8009	[ X ] . [ ]							
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8009 TV CAMERA C (A								
LEAD ANALYST:	W.C. LONG								
ASSESSMENT:									
CRITICAL FLIGH HDW/FU		ANCY SCREENS	c c	CIL ITEM					
•		- 1 r	1	г <b>у</b> 1 *					
NASA [ 2 /2 IOA [ 2 /1R	] [ ] ] [ P ]	[ P ] [	P j	[ X ] *					
COMPARE [ /N	] [N]	[и]	N ]	[ ]					
RECOMMENDATIONS:	(If different	from NASA)	ı						
[ 2 /1R	[ P ]	[ P ] [	P ] (Al	[ DD/DELETE)					
* CIL RETENTION	RATIONALE: (If a		ADEQUATE NADEQUATE	• •					
REMARKS: LOSS OF TVC COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING OF P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECITON AND RMS JETTISON TO ALLOW									
P/L BAY DOOR CLO									

ASSESSMI ASSESSMI NASA FMI	ENT	I	D:	COMTE	3/05/88 NASA DATA: COMTRK-8009A BASELINE 2.1.2 NEW								[		]			
SUBSYSTI MDAC ID: ITEM:	em:			COMM 8009 TV CA					P,	/L :	BAY)							
LEAD AN	ALY:	ST	:	W.C.	LO	NG												
ASSESSMI	ENT	:																
CRITICALITY REDUNDANCY SCREENS FLIGHT									L EM	r								
	]			NC		A			В			С					•	
NASA IOA	]	2	/2 /1R	]	[	P	]	]	P	]	[	P	]		[	X X	]	*
COMPARE	[		/N	]	[	N	]	[	N	]	[	N	]		[		]	
RECOMME	NDA:	ric	ons:	(If	đ	if	fer	ent	fro	om i	NASA)	)						
	[	2	/1R	]	[	P	]	[	P	]	[	P	]	(AI		/DE		TE)
* CIL RI	ETEI	NT:	ION I	RATION	IALI	Ε:	(I	f ap	pl:	ica:	-			ATE ATE		x	]	
INADEQUATE [ ]  REMARKS:  LOSS OF TVC COULD RESULT IN LOSS OF MISSION. LOSS OF ALL  CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND  MONITORING OF P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF  VEHICLE AND CREW. UNLIKE REDUNDANCY EXISTS VIA CREW WINDOW  VIEWING,  EVA AND COAS FOR CREW VISUAL INSPECITON AND RMS JETTISON TO ALLOW  P/L BAY DOOR CLOSURE.																		

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-80 2.1.3.1	009B		NASA DATA BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	COMM AND 8009 TV CAMERA		P/L BAY)		
LEAD ANALYST:	W.C. LONG	3			
ASSESSMENT:					
CRITICAL FLIGH	ITY F	REDUNDANC	Y SCREEN	rs .	CIL ITEM
HDW/FU		Ą	В	С	IILM
NASA [ 2 /2 IOA [ 2 /1R	] [ ] [ F	9] [	P ] [	P ]	[ X ] *
COMPARE [ /N	] [ N	4 ] [ :	и] [	N ]	[ ]
RECOMMENDATIONS:	(If dif	fferent f	rom NASA	)	
[ 2 /1R	] [ F	?][	P ] [	P ] (AI	[ ] DD/DELETE)
* CIL RETENTION	RATIONALE:	(If app	·	ADEQUATE NADEQUATE	[ X ]
REMARKS: LOSS OF TVC COUL CAPABILITY TO PE MONITORING OF P/ VEHICLE AND CREW VIEWING, EVA AND COAS FOR P/L BAY DOOR CLO	RFORM CCTV L BAY DOOR . UNLIKE CREW VISU	FUNCTION LATCHES	F MISSIO N COULD RESULTI CY EXIST	N. LOSS OF PREVENT RMS NG IN POSSI S VIA CREW	F ALL S STOW AND IBLE LOSS OF WINDOW

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8009C 2.1.5	BASELI	
	COMM AND TRACK 8009 TV CAMERA C (AFT	P/L BAY)	
LEAD ANALYST:	W.C. LONG		
ASSESSMENT:			
CRITICAL: FLIGHT	ITY REDUNDANC	CY SCREENS	CIL ITEM
		<b>B C</b>	
NASA [ 2 /2 IOA [ 2 /1R	] [ P ] [	P ] [ P ]	[ X ] * [ X ]
COMPARE [ /N	] [и][	N ] [ N ]	[ ]
RECOMMENDATIONS:	(If different f	from NASA)	
[ 2 /1R	] [P] [	P ] [ P ]	(ADD/DELETE)
* CIL RETENTION I	RATIONALE: (If app	olicable) ADEQUAT INADEQUAT	re [ X ]
CAPABILITY TO PER MONITORING OF P/I VEHICLE AND CREW VIEWING,	O RESULT IN LOSS ORFORM CCTV FUNCTION L BAY DOOR LATCHES. UNLIKE REDUNDAN CREW VISUAL INSPESURE.	OF MISSION. LOSS ON COULD PREVENT S RESULTING IN PO ICY EXISTS VIA CF	S OF ALL RMS STOW AND DSSIBLE LOSS OF REW WINDOW

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8009D 2.2.1	NASA DATA BASELINE NEW	
	COMM AND TRACK 8009 TV CAMERA C (AFT	P/L BAY)	
LEAD ANALYST:	W.C. LONG		
ASSESSMENT:			
FLIGHT	ITY REDUNDANC I NC A	CY SCREENS  B C	CIL
NASA [ 2 /2 IOA [ 2 /1R	] [ p ] [	P ] [ P ]	[ X ] *
COMPARE [ /N	] [ N ] [	и ] [и]	[ ]
RECOMMENDATIONS:	(If different f	from NASA)	
[ 2 /1R	] [P] [		[ ] DD/DELETE)
* CIL RETENTION I	RATIONALE: (If app	plicable) ADEQUATE INADEQUATE	
LOSS OF TVC COULI CAPABILITY TO PER MONITORING OF P/I VEHICLE AND CREW VIEWING,	RFORM CCTV FUNCTION BAY DOOR LATCHES UNLIKE REDUNDAN	OF MISSION. LOSS OF MISSION. LOSS OF COULD PREVENT RMS RESULTING IN POSSINCY EXISTS VIA CREW	S STOW AND IBLE LOSS OF WINDOW
P/L BAY DOOR CLOS		ECITON AND RMS JETT	ISON TO ALLOW

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8009E		BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8009 TV CAMERA C (AF	TT P/L BAY)		
LEAD ANALYST:	W.C. LONG	÷		
ASSESSMENT:				
CRITICAL: FLIGHT	ITY REDUNDA	NCY SCREENS	3	CIL ITEM
HDW/FUI		В	С	11411
NASA [ 2 /2 IOA [ 2 /1R	] [ ] ] ]	[ p ] [	p ]	[ X ] *
COMPARE [ /N	] [N]	[ N ] [	и ]	[ ]
RECOMMENDATIONS:	(If different	: from NASA)		
[ 2 /1R	] [ P ]	[ P ] [		[ ] DD/DELETE)
* CIL RETENTION I	RATIONALE: (If a	•	ADEQUATE IADEQUATE	
REMARKS: LOSS OF TVC COULI	DECLUE IN LOCK		~	•
CAPABILITY TO PER				
MONITORING OF P/I				
VEHICLE AND CREW. VIEWING,	. UNLIKE REDUND	ANCY EXISTS	VIA CREW	MINDOM
EVA AND COAS FOR P/L BAY DOOR CLOS		PECITON AND	RMS, JETTI	SON TO ALLOW

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	NASA DATA: BASELINE [ NEW [ ]	k ]							
SUBSYSTEM: COMM AND TRACK MDAC ID: 8009 ITEM: TV CAMERA C (AFT P/L BAY)									
LEAD ANALYST:	W.C. LONG								
ASSESSMENT:									
CRITICAL FLIGH		SCREENS CII							
HDW/FU		С							
NASA [ 2 /2 IOA [ 2 /1R	] [ P ] [ P	] [ P ] [ 2	x ] * x ]						
COMPARE [ /N	] [N] [N	] [N] [	] .						
RECOMMENDATIONS:	(If different fr	om NASA)							
[ 2 /1R	] [P] [P		] DELETE)						
	RATIONALE: (If appl		x ]						
CAPABILITY TO PE MONITORING OF P/ VEHICLE AND CREW VIEWING,	RFORM CCTV FUNCTION L BAY DOOR LATCHES . UNLIKE REDUNDANC CREW VISUAL INSPEC	MISSION. LOSS OF AN COULD PREVENT RMS STRESULTING IN POSSIBLY EXISTS VIA CREW WINTON AND RMS JETTISON	FOW AND E LOSS OF NDOW						

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8009G		NASA DATA BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8009 TV CAMERA C (AF		r L)	
LEAD ANALYST:	W.C. LONG			
ASSESSMENT:				
CRITICAL FLIGH	T	NCY SCREI		CIL ITEM
HDW/FU	NC A	В	C	
NASA [ 2 /2 IOA [ 2 /1R		[ ] [ P ]	[ ] [P]	[ X ] * [ X ]
COMPARE [ /N	] [ N ]	[ N ]	[ N ]	[ ]
RECOMMENDATIONS:	(If different	from NAS	SA)	
[ 2 /1R	] [P]	[ P ]	[ P ] (A)	[ ] DD/DELETE)
* CIL RETENTION	RATIONALE: (If a	applicable	e) ADEQUATE INADEQUATE	
REMARKS: LOSS OF TVC COUL CAPABILITY TO PE MONITORING OF P/ VEHICLE AND CREW VIEWING, EVA AND COAS FOR	RFORM CCTV FUNCT L BAY DOOR LATCH . UNLIKE REDUND CREW&a2160HVING	TION COULI IES RESULT DANCY EXIS	PREVENT RMS FING IN POSS STS VIA CREW	S STOW AND IBLE LOSS OF WINDOW
P/L BAY DOOR CLO	SURE.			

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8009H	NASA DATA: BASELINE [ ] NEW [ X ]						
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8009 TV CAMERA C (AFT P/L BAY)							
LEAD ANALYST: W.C. LONG								
ASSESSMENT:								
FLIGH	ITY REDUNDANCY SCREEN T NC A B	IS CIL ITEM C						
•		[ X ] * [ X ]						
COMPARE [ /N	] [N] [N]	[ ] [ и ]						
RECOMMENDATIONS:	(If different from NASA	A)						
[ 2 /1R	] [P] [P]	[P] [] (ADD/DELETE)						
* CIL RETENTION	RATIONALE: (If applicable)	ADEQUATE [ X ] INADEQUATE [ ]						
CAPABILITY TO PE MONITORING OF P/ VEHICLE AND CREW VIEWING.	D RESULT IN LOSS OF MISSIC REFORM CCTV FUNCTION COULD L BAY DOOR LATCHES RESULT: UNLIKE REDUNDANCY EXIST CREW VISUAL INSPECITON AND SURE.	PREVENT RMS STOW AND ING IN POSSIBLE LOSS OF IS VIA CREW WINDOW						

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8009I		NASA DATA BASELINI NEV	
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8009 TV CAMERA C (A		?)	
LEAD ANALYST:	W.C. LONG			
ASSESSMENT:				
CRITICAL FLIGH HDW/FU		ANCY SCREE		CIL
. ,	] [ ] ] [ P ]	[ <sub>P</sub> ]	[ ] [ P ]	[ X ] * [ X ]
COMPARE [ /N	] [N]	[ N ]	[ N ]	[ ]
RECOMMENDATIONS:	(If differen	t from NAS	SA)	
[ 2 /1R	] [ P ]	[ P ]	[ P ]	[ ] ADD/DELETE)
* CIL RETENTION 1	RATIONALE: (If	applicable	ADEQUATE	[ X ]
REMARKS: LOSS OF TVC COULD CAPABILITY TO PER			ON. LOSS C	F ALL
MONITORING OF P/I VEHICLE AND CREW				
VIEWING, EVA AND COAS FOR P/L BAY DOOR CLOS		SPECITON A	ND RMS JETT	rison to Allo

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8009J	COMTRK-8009J BASELINI							
SUBSYSTEM: MDAC ID: ITEM:	8009								
LEAD ANALYST: W.C. LONG									
ASSESSMENT:									
FLIGH	ITY REDU T NC A	ndancy screen B	c .	CIL ITEM					
NASA [ 2 /2 IOA [ 2 /1R	[ P ]	[ ] [ [ P ]	p ]	[ x ] *					
COMPARE [ /N	] [ N ]	[ N ] [	и ј	[ ]					
RECOMMENDATIONS:	(If differ	ent from NASA	.)						
[ 2 /1R	[ P ]	[ P ] [	P ] (A	[ ] DD/DELETE)					
* CIL RETENTION	RATIONALE: (I		ADEQUATE						
REMARKS: LOSS OF TVC COUI CAPABILITY TO PE MONITORING OF P/ VEHICLE AND CREW VIEWING,	RFORM CCTV FULL BAY DOOR LA	NCTION COULD TCHES RESULTI	PREVENT RM	S STOW AND IBLE LOSS OF					
EVA AND COAS FOR		INSPECITON AN	ID RMS JETT	ISON TO ALLOW					

ASSESSMI ASSESSMI NASA FMI	ENT	ID	):	3/0 COM 2.3	TRK	8 8	300	)9K							ASA BASI	ELI		[				
SUBSYSTI MDAC ID: ITEM:				COM 800 TV	9				.CK (AFT	P,	/L	BAY	)									
LEAD AN	ALYS	T:		W.C	. L	<b>10</b> .	1G															
ASSESSMI	ent:																					
			CAL				RI	EDU	NDAN	CY	SC	CREE	NS	;		=			L EN	,		
		_	IGHT /FUN				A			В				С				1.	LEP	1		
NASA IOA	[	2 2	/2 /1R	]		[	P	]	ָ כ	P	]		Ĺ	P	]			[ [	X X	]	*	
COMPARE	[		/N	]		[	N	]	(	N	]		[	N	]			[		]		
RECOMME	TADI	IC	NS:	(	Ιf	di	Ĺf	fer	ent	fr	mc	NAS.	A)									
	(	2	/1R	]		[	P	]	[	P	]		[	P	]		(AI		/DE		ΓE)	
* CIL RI	ETEN	TI	ON P	RATI	ONA	L	Ξ:	(I	f ap	pl	ica				DEQU DEQU				X			
REMARKS						_									_							
LOSS OF	TVC	шC	OULI	RE	SUL		II TV	ו ע ווים	OSS	OF	MJ	SSI	ON	DI	). וקלי	JSS JT	DMG 1O	:	ነውር የኮፐ	ነ <b>ሙ</b> :	מאא	
MONITOR:	LNC	OF	PEI	RA	V D	.C.	)R	T.A	TCHE	S	RES	ULT	ΙN	IG	IN	PO	SS]	BI	LΕ	LO	SS (	OF
VEHICLE	AND	Č	REW	U	NLI	KI	<u> </u>	RED	UNDA	NC	Y E	EXIS	TS	7	/IA	CR	EW	W]	N	WOO		
VIEWING	,		<u>.</u>	_ ·_· <del>_</del> ·																		<b>-</b>
EVA AND						IS	SUZ	AL	INSF	EC.	ITC	ON A	NĽ	) I	RMS	JΕ	TT]	LSC	N	TO	AL	TO
	2 26 36 3	_		311K F.																		

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:		B009L		NASA DATA BASELINE NEW	
<del>-</del>	COMM AND 8009 TV CAME		FT P/L BAY	<b>(</b> )	
LEAD ANALYST:	W.C. LO	NG			
ASSESSMENT:					
CRITICAL FLIGH		REDUNDA	ANCY SCREI	ens	CIL ITEM
HDW/FU	NC	A	В	С	
NASA [ 2 /2 IOA [ 2 /1R	] [	] P ]	[ ] [ P ]	[ ] [ P ]	[ X ] * [ X ]
COMPARE [ /N	] [	<b>n</b> ]	[ N ]	[и]	[ ]
RECOMMENDATIONS:	(If d	ifferent	from NAS	SA)	
[ 2 /1R	] [	P ]	[ P ]	[ P ] (A	[ ] DD/DELETE)
* CIL RETENTION	RATIONAL	E: (If a	applicable	e) ADEQUATE INADEQUATE	
REMARKS: LOSS OF OUTPUT C FUNCTION WAS ANA		L TVC F	UNCTIONS.		

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8009M		BASELINE [ NEW [	
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACE 8009 TV CAMERA C (A		Being .	
LEAD ANALYST:	W.C. LONG			
ASSESSMENT:				
CRITICAL FLIGH	ITY REDUNI	DANCY SCREENS		L EM
HDW/FU		в с	<b></b>	EM
NASA [ 2 /2 IOA [ 2 /1R	] [ p ]	[ ] [ [ P ] [ P	] [	x ] * x ]
COMPARE [ /N	] [N]	[ N ] [ N	] [	]
RECOMMENDATIONS:	(If differer	nt from NASA)		
[ 2 /1R	] [P]	[ P ] [ P		] DELETE)
* CIL RETENTION	RATIONALE: (If		DEQUATE [	х ј
REMARKS: LOSS OF OUTPUT C FUNCTION WAS ANA		UNCTIONS. ON	LY THE WORS	T CASE

4560V

	ASSESSM ASSESSM NASA FM	ENT	II	):		RK-8	юс	9N							SASE		[		]	
	SUBSYST MDAC ID ITEM:				COMM 8009 TV C					' E	?/	L B	AY)							
	LEAD AN	ALYS	T:	:	W.C.	LON	IG													
	ASSESSM	ENT:	:																	
		CR		[CAL]	[TY r		RI	EDUI	NDAN	IC?	Z	SCR	EENS	3				IL PEM	1	
		I		v/FUI			A			F	В			С						
	NASA IOA	[	2	/2 /1R	]	]	P	]	[		P	]	[	P	]		[ [	X X	]	*
	COMPARE	[		/N	]	. [	N	1	(	1	N	]	[	N	]		[		]	
	RECOMME	NDA'	ri(	ONS:	(I	f di	Ĺfí	fer	ent	fı	ro	m N	IASA)	)						
		[	2	/1R	]	[	P	]	(	[ ]	P	]	[	P	]	(A	DD,	/DI	] ELI	ETE)
	* CIL R	ETE	NT:	ION I	RATIC	NALI	€:	(I	f ag	gc.	li	.cab			DEQU.			x	]	
REMARKS	LOSS OF						ւ ։	IVC	FUN	1C!	ΤI	ONS	s. (	ON	LY T	HE V	<b>VOR</b>	ST	CZ	ASE

ASSESSMENT ASSESSMENT NASA FMEA	ID:	COMTRK-8	0090		NASA D <u>ATA:</u> BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:		8009		T P/L BAY		. Wer Bear
LEAD ANALY	ST:	W.C. LON	iG ·			to an area of the
ASSESSMENT	<b>':</b>					
	ITICALI FLIGHT HDW/FUN	1	REDUNDA A	NCY SCREE	ns C	CIL ITEM
NASA [ IOA [	2 /2 2 /1R	] [	P ]	[ ] [ P ]	[ ] [ P ]	[ X ] * [ X ]
COMPARE [	/N	] [	n ]	[ N ]	[ N ]	[ ]
RECOMMENDA	TIONS:	(If di	fferent	from NAS	<b>A)</b>	
. [	2 /1R	] [	P ]	[ P ]	[ P ] (AE	[ ] DD/DELETE)
* CIL RETE	NTION F	ATIONALE	: (If a		) ADEQUATE INADEQUATE	
REMARKS: LOSS OF OU FUNCTION W			TVC FU		ONLY THE WO	

assessm Assessm Nasa FM	ENT	ID		3/05/88 COMTRK-8009P 2.2.3.2						ASA DATA BASELINE NEW	[	x	]				
SUBSYST MDAC II ITEM:				COMM A 8009 TV CAM					P/	'L BA	Y)						
LEAD AN	IALY	ST:	;	W.C. I	<b>LO1</b>	1G											
ASSESSI	ENT	:															
		FI	CAL LIGH' V/FUI	r		RI A	EDUN	DAN	CY B	SCRE	ENS	c			L LEM	1	
NAS!	] 4	2 2	/2 /1R	]	[	P	]	[	P	]	[	P	]	[	X X	]	*
COMPARI	E [		/N	]	[	N	]	[	N	]	[	N	]	[		]	
RECOMM	ENDA	TI(	ONS:	(If	<b>d</b> .	if	fere	nt :	fr	om NA	SA	)					
	[	2	/1R	]	[	P	]	[	P	3	[	P		] .DD,	/DI	ELI	ETE)
* CIL 1	RETE	NT:	ION :	RATION	ΑL	E:	(If	ap	pl:	icabl			DEQUATE DEQUATE	[	x	]	
REMARKS FUNCTIONS .O. FUNCTION	F OU				ΑL	L!	rvc				(	ON	LY THE W	OR	ST	C	ASE

ASSESSME ASSESSME NASA FME	NT :	ID:	3/05/8 COMTRI 2.3.3	7-8	00	9Q						ASA DATA BASELINE NEW	[	x	]	
SUBSYSTE MDAC ID: ITEM:	M:		COMM A 8009 TV CAN				FT	P/	'L BAY	: (2)						
LEAD ANA	LYS'	T:	W.C. 1	ON	G											
ASSESSME	NT:															
	:	FLIGH:				DUND	ANG	CY B	SCREE	ENS	S C		CI II	CL CEM	Ī	
	n	DW/FUI	NC		A			D			C					
NASA IOA		2 /2 2 /1R	]	[	P	]	[	P	]	[	P	]	[	X X	]	*
COMPARE	(	/N	]	[	N	]	[	N	]	[	N	]	[		]	
RECOMMEN	DAT:	ions:	(If	di	ff	eren	t i	fro	m NAS	A)	l -					
	[ :	2 /1R	]	[	P	]	[	P	]	[	P		] DD/	/ DE	] :LE	TE)
* CIL RE	ינאיםית	י ארבי	O A TT ∩ NZ	T.F		(Tf :	ירו ב	\1 i	cable	١.						
	I LIIV	11011	MITON	*****	•	(22 (	~P1		.00210			EQUATE EQUATE	[ [	X	]	
REMARKS: LOSS OF FUNCTION				LL	I	VC F	JNC	TI	ONS.	C	INC	LY THE WO	ORS	ST	CA	SE

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8010 2.1.1	NASA DATA: BASELINE NEW	
SUBSYSTEM:	COMM AND TRACK	STBD POSITION FWD)	
LEAD ANALYST:	W.C. LONG		No. of the second secon
ASSESSMENT:			
CRITICAL FLIGH	ITY REDUNDANC	Y SCREENS	CIL ITEM
HDW/FU		В С	
NASA [ 2 /2 IOA [ 2 /1R	[ P ] [	P ] [ P ]	[ X ] * [ X ]
COMPARE [ /N	] [и] [1	и] [и]	[ ]
RECOMMENDATIONS:	(If different f	rom NASA)	
[ 2 /1R	[P] [		[ ] DD/DELETE)
* CIL RETENTION	RATIONALE: (If app	licable) ADEQUATE INADEQUATE	
CAPABILITY TO PE MONITORING OF P/ VEHICLE AND CREW VIEWING.	RFORM CCTV FUNCTIO L BAY DOOR LATCHES L UNLIKE REDUNDAN C CREW VISUAL INSPE	OF MISSION. LOSS OF MISSION. LOSS OF MISSION. LOSS OF MISSION PREVENT RMS CREWITH CREW	S STOW AND IBLE LOSS OF WINDOW

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	8 -8010A	NASA DATA: 10A BASELINE [ ] NEW [ X ]				
SUBSYSTEM: MDAC ID: ITEM:	8010		S STBD PC	SITION FWD)		
LEAD ANALYST:	W.C. LC	NG				
ASSESSMENT:					i stato i s	
CRITICAL FLIGH		REDUNDA	NCY SCREE	ens	CIL ITEM	
HDW/FU	NC	A	В	С		
NASA [ 2 /2 IOA [ 2 /1R	] [	p ]	[ ] [ P ]	[ ] [ P ]	[ X ] * [ X ]	
COMPARE [ /N	] [	[и]	[ א ]	[ N ]	[ ]	
fromRECOMMENDATIONS:	(If d	lifferent	NAS	SA)		
[ 2 /1R	] [	P ]	[ P ]	[ P ] (Al	[ ] DD/DELETE)	
* CIL RETENTION	RATIONAI	LE: (If a	pplicable	e) ADEQUATE INADEQUATE		
REMARKS: LOSS OF TVC COULD CAPABILITY TO PER MONITORING OF PAR VEHICLE AND CREW VIEWING, EVA AND COAS FOR	RFORM CO L BAY DO . UNLIK	CTV FUNCT OOR LATCH KE REDUND	ION COULD ES RESULT ANCY EXIS	PREVENT RMS ING IN POSS TS VIA CREW	S STOW AND IBLE LOSS OF WINDOW	
P/L BAY DOOR CLOS						

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8010B 2.1.3.1	NASA DATA BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8010 TV CAMERA D (RMS	S STBD POSITION FWD)	
LEAD ANALYST:	W.C. LONG		
ASSESSMENT:			
CRITICAL FLIGH		ICY SCREENS	CIL ITEM
HDW/FU		ВС	
NASA [ 2 /2 IOA [ 2 /1R	[ ] [ ] [ [ P ] [	P ] [ P ]	[ X ] *
COMPARE [ /N	] [N] [	[ N ] [ N ]	[ ]
RECOMMENDATIONS:	(If different	from NASA)	
[ 2 /1R	[P] [	[P] [P] (A	[ ] ADD/DELETE)
* CIL RETENTION	RATIONALE: (If ap	oplicable) ADEQUATE INADEQUATE	[ X ] [ ]
CAPABILITY TO PE MONITORING OF P/ VEHICLE AND CREW VIEWING,	RFORM CCTV FUNCTI L BAY DOOR LATCHE U. UNLIKE REDUNDA R CREW VISUAL INSF	OF MISSION. LOSS OF MISSION. LOSS OF MISSION. LOSS OF THE COULD PREVENT RM POSS ANCY EXISTS VIA CREW PECITON AND RMS JETT	IS STOW AND SIBLE LOSS OF WINDOW

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8010C 2.1.5	NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8010 TV CAMERA D (RMS	STBD POSITION FWD)	
LEAD ANALYST:	W.C. LONG		
ASSESSMENT:			
CRITICAL FLIGH	ITY REDUNDANC T	CY SCREENS	CIL ITEM
HDW/FU	NC A	ВС	
NASA [ 2 /2 IOA [ 2 /1R	] [ P ] [	P ] [ P ]	[ X ] *
COMPARE [ /N	] [ n ] [	и] [и]	[ ]
RECOMMENDATIONS:	(If different i	from NASA)	
[ 2 /1R	[ P ] [	P ] [ P ] (AI	[ ] DD/DELETE)
* CIL RETENTION	RATIONALE: (If app	plicable) ADEQUATE INADEQUATE	
CAPABILITY TO PE MONITORING OF P/ VEHICLE AND CREW VIEWING.	RFORM CCTV FUNCTION IN BAY DOOR LATCHES UNLIKE REDUNDANGE CREW VISUAL INSPIRED	OF MISSION. LOSS OF MISSION. LOSS OF COULD PREVENT RMS SESULTING IN POSSINCY EXISTS VIA CREW	S STOW AND IBLE LOSS OF WINDOW

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8010D	NASA DATA: BASELINE [ ] NEW [ X ]
	COMM AND TRACK 8010 TV CAMERA D (RMS STBD POSI	TION FWD)
LEAD ANALYST:	W.C. LONG	
ASSESSMENT:		
CRITICALI FLIGHT	TTY REDUNDANCY SCREENS	CIL ITEM
HDW/FUN	NC A B	С
NASA [ 2 /2 IOA [ 2 /1R	] [ ] [ ] [ ] [ P ] [ P ] [	P ] [ X ] *
COMPARE [ /N	] [N] [N] [	и] []
RECOMMENDATIONS:	(If different from NASA)	
[ 2 /1R	] [P] [P] [	P ] [ ] (ADD/DELETE)
	RATIONALE: (If applicable)	ADEQUATE [ X ] ADEQUATE [ ]
CAPABILITY TO PER MONITORING OF P/I VEHICLE AND CREW. VIEWING,	D RESULT IN LOSS OF MISSION RFORM CCTV FUNCTION COULD FOR LATCHES RESULTING UNLIKE REDUNDANCY EXISTS CREW VISUAL INSPECITON AND SURE.	PREVENT RMS STOW AND IG IN POSSIBLE LOSS OF S VIA CREW WINDOW

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8010E 2.2.2	BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8010 TV CAMERA D (RMS	S STBD POSITION FWD)	
LEAD ANALYST:	W.C. LONG		
ASSESSMENT:	-		
FLIGHT		NCY SCREENS  B C	CIL ITEM
•	NC A	_	
		[ ] [ ] [ P ] [ P ]	
COMPARE [ /N	] [N]	[и] [и]	[ ]
RECOMMENDATIONS:	(If different	from NASA)	
[ 2 /1R	] [P] [	[P] [P] (A	[ ] DD/DELETE)
* CIL RETENTION	RATIONALE: (If ag	oplicable) ADEQUATE INADEQUATE	[ X ]
CAPABILITY TO PERMONITORING OF PARMONITORING OF PARMONITO	RFORM CCTV FUNCTI L BAY DOOR LATCHI . UNLIKE REDUNDA CREW VISUAL INSI	OF MISSION. LOSS OF MISSION. LOSS OF MISSION. LOSS OF THE COULD PREVENT RM POSS ANCY EXISTS VIA CREW PECITON AND RMS JETT	F ALL S STOW AND IBLE LOSS OF WINDOW

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8010F	NASA D BASEL	
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8010 TV CAMERA D (RM	MS STBD POSITION F	WD)
LEAD ANALYST:	W.C. LONG		• •
ASSESSMENT:			
CRITICAL FLIGH		ANCY SCREENS	CIL ITEM
HDW/FU		в с	
NASA [ 2 /2 IOA [ 2 /1R	] [ ] ] [ P ]	[ P ] [ P ]	[ X ] *
COMPARE [ /N	] [N]	[ N ] [ N ]	[ ]
RECOMMENDATIONS:	(If different	t from NASA)	
[ 2 /1R	[ P ]	[ P ] [ P ]	[ ] (ADD/DELETE)
* CIL RETENTION	RATIONALE: (If	ADEQUA	TE [ X ]
CAPABILITY TO PE MONITORING OF P/ VEHICLE AND CREW VIEWING.	RFORM CCTV FUNCT L BAY DOOR LATC . UNLIKE REDUNT CREW VISUAL IN	S OF MISSION. LOS TION COULD PREVENT HES RESULTING IN F DANCY EXISTS VIA C SPECITON AND RMS J	RMS STOW AND POSSIBLE LOSS OF REW WINDOW

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8010G 2.2.5	NASA DATA: BASELINE NEW	[ x ]
MDAC ID:	8010	STBD POSITION FWD)	
LEAD ANALYST:	W.C. LONG		
ASSESSMENT:			e e e e e e e e e e e e e e e e e e e
FLIGHT	ITY REDUNDAN I NC A	CY SCREENS  B C	CIL ITEM
NASA [ 2 /2 IOA [ 2 /1R	] [P] [	P ] [ P ]	[ X ] * [ X ]
COMPARE [ /N	] [N][	и] [и]	[ ]
RECOMMENDATIONS:	(If different	from NASA)	
[ 2 /1R	] [P] [		[ ] DD/DELETE)
* CIL RETENTION 1	RATIONALE: (If ap	plicable) ADEQUATE INADEQUATE	
CAPABILITY TO PERMONITORING OF P/T VEHICLE AND CREW VIEWING,	RFORM CCTV FUNCTI L BAY DOOR LATCHE . UNLIKE REDUNDA CREW VISUAL INSP	OF MISSION. LOSS OF ON COULD PREVENT RMS SESULTING IN POSSINCY EXISTS VIA CREW	S STOW AND IBLE LOSS OF WINDOW

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8010H	NASA DAT BASELIN NI	TA: NE [ ] EW [ X ]
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8010 TV CAMERA D (RM	MS STBD POSITION FWI	D)
LEAD ANALYST:	W.C. LONG		
ASSESSMENT:			
CRITICAL FLIGH		ANCY SCREENS	CIL ITEM
HDW/FU		ВС	_
NASA [ 2 /2 IOA [ 2 /1F	[ ] [ P ]	[ ] [ ] [ P ]	[ X ] * [ X ]
COMPARE [ /N	] [ N ]	[ и ] [ и ]	[ ]
RECOMMENDATIONS:	(If differen	t from NASA)	
[ 2 /1F	P]	[ P ] [ P ]	[ ] (ADD/DELETE)
* CIL RETENTION	RATIONALE: (If	applicable) ADEQUAT INADEQUAT	E [ X ] E [ ]
REMARKS:	D RESULT IN LOS	s of Mission. Loss	OF ALL
CAPABILITY TO PE	RFORM CCTV FUNC	TION COULD PREVENT HES RESULTING IN PO DANCY EXISTS VIA CR	RMS STOW AND SSIBLE LOSS OF
VIEWING.		SPECITON AND RMS JE	

P/L BAY DOOR CLOSURE.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8010I 2.3.2	BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8010 TV CAMERA D (RMS	STBD POSITION FWD)	
LEAD ANALYST:	W.C. LONG	• • • • • • • • • • • • • • • • • • •	
ASSESSMENT:			
CRITICALI FLIGHT	ITY REDUNDANG	CY SCREENS	CIL ITEM
HDW/FU		В С	
NASA [ 2 /2 IOA [ 2 /1R	] [ P ] [	P ] [ P ]	[ X ] *
COMPARE [ /N	] [ N ] [	и] [и]	[ ]
RECOMMENDATIONS:	(If different	from NASA)	
[ 2 /1R	] [P]		[ ] DD/DELETE)
* CIL RETENTION F	RATIONALE: (If app	plicable) ADEQUATE INADEQUATE	[ X ] [ ]
REMARKS:	RESULT IN LOSS (	OF MISSION. LOSS OF	ALL
CAPABILITY TO PER MONITORING OF P/I VEHICLE AND CREW.	RFORM CCTV FUNCTION BAY DOOR LATCHES	ON COULD PREVENT RMS S RESULTING IN POSSINCY EXISTS VIA CREW	S STOW AND BLE LOSS OF
VIEWING, EVA AND COAS FOR P/L BAY DOOR CLOS		ECITON AND RMS JETTI	SON TO ALLOW

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8010J	NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8010 TV CAMERA D (RMS	STBD POSITION FWD)	
LEAD ANALYST:	W.C. LONG		
ASSESSMENT:			
FLIGH	LITY REDUNDANG IT INC A	CY SCREENS  B C	CIL
NASA [ 2 /2 IOA [ 2 /1R	] [ ] [ R ] [ P ] [	P ] [ P ]	[ X ] *
COMPARE [ /N	] [ N ] [	и] [и]	[ ]
RECOMMENDATIONS:	(If different	from NASA)	
[ 2 /1F	R] [P] [	P ] [ P ] (A	[ ] DD/DELETE)
	RATIONALE: (If ap	plicable) ADEQUATE INADEQUATE	[ X ]
CAPABILITY TO PE MONITORING OF P/ VEHICLE AND CREW VIEWING.	ERFORM CCTV FUNCTI /L BAY DOOR LATCHE W. UNLIKE REDUNDA	OF MISSION. LOSS OON COULD PREVENT RMS RESULTING IN POSS NCY EXISTS VIA CREW	S STOW AND IBLE LOSS OF WINDOW
P/L BAY DOOR CLO		TOTION INID INID OBIT	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8010K 2.3.5		NASA DATA BASELINE NEW	
SUBSYSTEM:	· ·		SITION FWD)	
LEAD ANALYST:	W.C. LONG			
ASSESSMENT:				
	TTY REDUNDA	NCY SCREEN	ıs	CIL ITEM
FLIGHT HDW/FUR	NC A	В	С	111311
NASA [ 2 /2 IOA [ 2 /1R	] [ ] ] ]	[ ] [ [ P ]	] P ]	[ X ] * [ X ]
COMPARE [ /N	] [ N ]	[ N ]	ן א ן	[ ]
RECOMMENDATIONS:	(If different	: from NASA	<b>v</b> )	
[ 2 /1R	] [P]	[ P ] [	[ P ] (A)	[ ] DD/DELETE)
* CIL RETENTION I	RATIONALE: (If a		ADEQUATE	
REMARKS: LOSS OF TVC COULD CAPABILITY TO PER MONITORING OF PAR VEHICLE AND CREW VIEWING, EVA AND COAS FOR	RFORM CCTV FUNCT L BAY DOOR LATCH . UNLIKE REDUNI	TION COULD HES RESULTI DANCY EXIST	PREVENT RMS ING IN POSSI IS VIA CREW	S STOW AND IBLE LOSS OF WINDOW
P/L BAY DOOR CLOS				

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8	3010L		NASA DAT BASELIN NE	
SUBSYSTEM: MDAC ID: ITEM:	8010	•		POSITION FWI	<b>)</b> )
LEAD ANALYST:	W.C. LO	1G			
ASSESSMENT:					
CRITICAL: FLIGH		REDUND	ANCY SCR	EENS	CIL ITEM
HDW/FU	NC	A	В	С	
NASA [ 3 /1R IOA [ 2 /1R	] [	P ] P ]	[ P ] [ P ]	[ P ] [ P ]	[ x ] *
COMPARE [ N /	] [	]	[ ]	[ ]	[и]
RECOMMENDATIONS:	(If d	ifferen	t from N	ASA)	
ι. /	) [	]	í j	[ ]	[ (ADD/DELETE)
* CIL RETENTION	RATIONAL	E: (If	applicab	le) ADEQUATI INADEQUATI	
REMARKS: LOSS OF OUTPUT C FUNCTION WAS ANA		L TVC F	UNCTIONS	~	•

ASSESSMI ASSESSMI NASA FMI	ENT	II	<b>)</b> :	3/05/8 COMTRK 2.2.4	8 (–8	301	LOM									DA ELI N	NE		X	]	
SUBSYSTEMDAC ID:				COMM A 8010 TV CAM					S	Sī	BD	PO	sı	TI	ON	FW	D)				
LEAD ANA	LYS	ST	:	W.C. I	10.	1G	-														
ASSESSMI	en <b>t</b> :	:																			
		F	LIGHT	TTY C		RE A	EDUNI	DAI	NC	ey B	sc	REE	NS		1	Turius	Že -	CI		í	
NASA IOA	[	3 2	/1R /1R	]	[	P P	]		[	P P	]		[	P P	]			[	X	]	*
COMPARE	[	N	/	]	[		]		[		]		[		]			[	N	]	
RECOMME	IDA!	ΓI	ONS:	(If	đi	iff	fere	nt	1	îro	om	NAS	A)								
	[		/	]	[		1.		[		]		[		]		(AI	[ )D/			ETE)
* CIL RI		NT:	ION 1	RATIONA	LI	€:	(If	aj	ÞĒ	1:	ica					UAT UAT		[		]	
REMARKS LOSS OF FUNCTION	OU'				\L]	C I	rvc :	FUI	NC	CT:	CON	s.	C	NI	ĽΥ	THE	W	ORS	T	CF	SE

ASSESSMENT DATE:	3/05/88			NASA DATA	
ASSESSMENT ID:	COMTRK-80 2.3.4	)10 <b>N</b>		BASELINE NEW	[ x ]
	COMM AND 8010 TV CAMERA		S STBD PO	SITION FWD)	
LEAD ANALYST:	W.C. LONG	3			
ASSESSMENT:					
	ITY F	REDUNDA	NCY SCREE	ns	CIL ITEM
FLIGH HDW/FU		A	В	С	IIDM
NASA [ 3 /1R IOA [ 2 /1R	] [1	P ] P ]	[ P ] [ P ]	[ P ] [ P ]	[ x ] *
COMPARE [ N /	3 [	]	[ ]	[ ]	[ N ]
RECOMMENDATIONS:	(If di	fferent	from NAS	SA)	
[ /	] [	]	[ ]	[ ] (A)	[ DD/DELETE)
* CIL RETENTION	RATIONALE	: (If a	pplicable	ADEQUATE	-
REMARKS: LOSS OF OUTPUT C FUNCTION WAS ANA		TVC FU	NCTIONS.		•

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-80100 2.1.3.2		SA DATA: ASELINE [ ] NEW [ X ]
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8010 TV CAMERA D (RM		•
LEAD ANALYST:	W.C. LONG		
ASSESSMENT:			
FLIGH	ITY REDUNDA T NC A	ANCY SCREENS B C	CIL
NASA [ 3 /3 IOA [ 2 /1F	[ ] [ P ]	[ ] [ [ P ] [ P	] [ ] * [ x ]
COMPARE [ N /N	] [ N ]	[ N ] [ N ]	[и]
RECOMMENDATIONS:	(If different	: from NASA)	
[ /	] [ ]		[ ] (ADD/DELETE)
* CIL RETENTION REMARKS:	RATIONALE: (If a	ADI	EQUATE [ X ] EQUATE [ ]
		NCTIONS. ONLY	THE WORST CASE

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:		3010P		NASA DATA BASELINE NEW	_
D	COMM AND 8010 TV CAME			OSITION FWD)	
LEAD ANALYST:	W.C. LO	NG			
ASSESSMENT:					
CRITICAL		REDUND	ANCY SCRE	ens	CIL ITEM
FLIGH HDW/FU		A	В	С	11011
NASA [ 3 /3 IOA [ 2 /1R	] [	p ]	[ ] [ P ]	[ ] [ P ]	[ x ] *
COMPARE [ N /N	] [	и ј	[ N ]	[ N ]	[ N ]
RECOMMENDATIONS:	(If d	ifferen	t from NA	SA)	
. [ /	] [	]	[ ]	[ ] (A	[ ] .DD/DELETE)
* CIL RETENTION	RATIONAL	E: (If	applicabl	e) ADEQUATE INADEQUATE	
REMARKS: LOSS OF OUTPUT C		L TVC I	FUNCTIONS.	ONLY THE W	ORST CASE

ASSESSMI ASSESSMI NASA FMI	ENT	I	D:	C	OMTRI	ζ-8	80:	LOQ	2								A DA SELI N		[			
SUBSYSTI MDAC ID: ITEM:				80	OMM A 010 V CAN												N FW	ID)				
LEAD ANA	ALY:	ST	:	W.	.c. 1	.01	NG															
ASSESSMI	ENT	:																				
		F	ICAL LIGH W/FU	Г			RI A	EDU	NDA	\N(	CY B	SC	REE	NS	s C				C:		1	
NASA IOA	]	3 2	/3 /1R	]		[	P	]		[	P	]		]	P	]			[	x	]	*
COMPARE	[	N	/N	]		[	N	]		[	N	]		[	N	]			[	N	]	
RECOMMEN	IDA!	ΓI	ons:		(If	d:	ifí	er	ent	: 1	fro	om I	NAS	A)	)							
	[		/	]		[		]		[		]		[		]		(Al		/DI		ETE)
* CIL RE		NT:	ION 1	RAT	TIONA	LI	Ξ:	(I	fa	pį	<b>91</b> i	[ca]		•			TAUÇ TAUÇ		-	x		
REMARKS: LOSS OF	OU'					LI	ני	.VC	FU	NC	T	ON	s.	C	NI	ĽΥ	THE	W(	ORS	T	CA	SE

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8011 2.1.1	BAS	ELINE [ ] NEW [ X ]
SUBSYSTEM: MDAC ID: ITEM:	8011 TV CAMERA D (F	MS STBD POSITION	FWD)
LEAD ANALYST:	W.C. LONG		
ASSESSMENT:			
CRITICAI FLIGH	LITY REDUND		CIL ITEM
HDW/FU	INC A	ВС	
NASA [ 2 /2 IOA [ 2 /1F	[ ] R ] [ P ]	[ ] [ ] [ P ] [ P ]	[ X ] *
COMPARE [ /N	] [N]	[ N ] [ N ]	[ ]
RECOMMENDATIONS	: (If differen	nt from NASA)	
[ 2 /11	R] [P]	[ P ] [ P ]	[ ] (ADD/DELETE)
* CIL RETENTION	RATIONALE: (If	ADE	QUATE [ X ] QUATE [ ]
CAPABILITY TO PROMOTION OF PARTICLE AND CREW	ERFORM CCTV FUNG /L BAY DOOR LATO W. UNLIKE REDUI	SS OF MISSION. TO CTION COULD PREVIOUS INCOMES RESULTING INCOMES VIOLANCY EXISTS VIO	LOSS OF ALL ENT RMS STOW AND N POSSIBLE LOSS OF
P/T, BAY DOOR CL	OSURE.		

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8011A 2.1.2		BASELINE NEW	[ <b>x</b> ]
SUBSYSTEM: MDAC ID: ITEM:	8011 TV CAMERA D (RM	IS STBD POS	SITION FWD)	<del></del>
LEAD ANALYST:	W.C. LONG			
ASSESSMENT:				
FLIGHT		NCY SCREEN		CIL ITEM
HDW/FUI	NC A	В	С	
NASA [ 2 /2 IOA [ 2 /1R	] [ ] ]	[ ] [ [ P ] [	P ]	[ X ] *
COMPARE [ /N	] [N]	[ N ]	' и ј	[ ]
RECOMMENDATIONS:	(If different	from NASA	7)	
[ 2 /1R	] [P]	[ P ] [		[ ] DD/DELETE)
* CIL RETENTION F	RATIONALE: (If a		ADEQUATE NADEQUATE	
REMARKS: LOSS OF TVC COULI CAPABILITY TO PER MONITORING OF P/I VEHICLE AND CREW. VIEWING,	RFORM CCTV FUNCT L BAY DOOR LATCH	TION COULD SES RESULTI	PREVENT RMS	STOW AND BLE LOSS OF
EVA AND COAS FOR P/L BAY DOOR CLOS		SEPCTION AN	D RMS JETTI	SON TO ALLOW

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-801 2.1.3.1	.1B	NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	8011 TV CAMERA	D (RMS STBD PC	SITION FWD)	
LEAD ANALYST:	W.C. LONG			
ASSESSMENT:				
		EDUNDANCY SCREE	ens	CIL ITEM
FLIGH HDW/FU		В	С	
NASA [ 2 /2 IOA [ 2 /1R	] [ ] [ P	] [ ] ] ]	[ ] [ P ]	[ X ] *
COMPARE [ /N	] [ N	] [ N ]	[ N ]	[ ]
RECOMMENDATIONS:	(If diff	ferent from NAS	SA)	
[ 2 /1R	] [ P	] [ P ]	[ P ] (AI	[ ] DD/DELETE)
* CIL RETENTION	RATIONALE:	(If applicable	e) ADEQUATE INADEQUATE	[ X ]
REMARKS: LOSS OF TVC COUL CAPABILITY TO PE MONITORING OF P/ VEHICLE AND CREW	RFORM CCTV L BAY DOOR	FUNCTION COULT	ION. LOSS OF D PREVENT RMS FING IN POSS	F ALL S STOW AND IBLE LOSS OF

EVA AND COAS FOR CREW VISUAL INSEPCTION AND RMS JETTISON TO ALLOW

P/L BAY DOOR CLOSURE.

VIEWING,

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8011C 2.1.5	2	BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	8011 TV CAMERA D (RM	MS STBD POSI	TION FWD)	
LEAD ANALYST:	W.C. LONG			
ASSESSMENT:				
CRITICALI FLIGHT	TY REDUNDA	ANCY SCREENS	1	CIL ITEM
HDW/FU	IC A	В	С	
NASA [ 2 /2 IOA [ 2 /1R	[ P ]	[ P ] [	p ]	[ X ] * [ X ]
COMPARE [ /N	] [N]	[ N ] [	и ]	[ ]
RECOMMENDATIONS:	(If different	from NASA)		
[ 2 /1R	] [ P ]	[ P ] [	P ] (AD	[ ] D/DELETE)
* CIL RETENTION F	RATIONALE: (If a		ADEQUATE ADEQUATE	
REMARKS:		7.14	ADEQUATE	i j
LOSS OF TVC COULD CAPABILITY TO PER MONITORING OF P/I VEHICLE AND CREW. VIEWING,	RFORM CCTV FUNCT L BAY DOOR LATCH	TION COULD PIES RESULTIN	REVENT RMS G IN POSSI	STOW AND BLE LOSS OF
EVA AND COAS FOR P/L BAY DOOR CLOS		SEPCTION AND	RMS JETTI	SON TO ALLO

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8011D	[ x ]								
SUBSYSTEM: MDAC ID: ITEM:	8011 TV CAMERA D (RMS	011 V CAMERA D (RMS STBD POSITION FWD)								
LEAD ANALYST: W.C. LONG										
ASSESSMENT:										
CRITICAL FLIGH HDW/FU		CY SCREENS  B C	CIL ITEM							
NASA [ 2 /2 IOA [ 2 /1R	] [ ] [	] [ ] P ] [ P ]	[ X ] *							
COMPARE [ /N	] [N][	и ] [и]	[ ]							
RECOMMENDATIONS:	(If different	from NASA)	•							
[ 2 /1R	] [P] [	P ] [ P ] (A	[ ] DD/DELETE)							
* CIL RETENTION	RATIONALE: (If app	plicable) ADEQUATE INADEQUATE	[ X ]							
CAPABILITY TO PE MONITORING OF P/ VEHICLE AND CREW	RFORM CCTV FUNCTION OF LATCHES OF	OF MISSION. LOSS OF MISSION. LOSS OF ON COULD PREVENT RM. S RESULTING IN POSSINCY EXISTS VIA CREW PCTION AND RMS JETT	F ALL S STOW AND IBLE LOSS OF WINDOW							

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8 2.2.2	8011E		: [ x ]							
SUBSYSTEM: MDAC ID: ITEM:		RA D (RMS STBD									
LEAD ANALYST: W.C. LONG											
ASSESSMENT:											
FLIGH'		REDUNDANCY SCR	EENS C	CIL ITEM							
·		P ] [ P ]	[ ] [ P ]	[ X ] *							
COMPARE [ /N	] [	иј [иј	[ N ]	[ ]							
RECOMMENDATIONS:	(If d	ifferent from N	ASA)								
[ 2 /1R	] [	P ] [ P ]	[ P ]	[ ] DD/DELETE)							
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]											
REMARKS:											
LOSS OF TVC COULI	D RESULT	IN LOSS OF MIS	SION. LOSS OF	F ALL							
	CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND										
MONITORING OF P/1											
VEHICLE AND CREW											
VIEWING,											
EVA AND COAS FOR	CREW VIS	SUAL INSEPCTION	AND RMS JETT	ISON TO ALLOW							

P/L BAY DOOR CLOSURE.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8011F 2.2.3.1	3/05/88 NASA DATA: COMTRK-8011F BASELINE 2.2.3.1 NEW							
SUBSYSTEM:	8011 TV CAMERA D (RM		(TION FWD)	-					
LEAD ANALYST:	W.C. LONG								
ASSESSMENT:									
FLIGH				CIL ITEM					
HDW/FU	NC A	В	С						
NASA [ 2 /2 IOA [ 2 /1R	] [ ] ] [ P ]	[ p ] [	p ]	[ X ] * [ X ]					
COMPARE [ /N	] [N]	[ N ]	N ]	[ ] .					
RECOMMENDATIONS:	(If different	from NASA	)						
[ 2 /1R	[ P ]	[ P ] [	P ] (AI	[ DD/DELETE)					
* CIL RETENTION	RATIONALE: (If a		ADEQUATE NADEQUATE						
REMARKS: LOSS OF TVC COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING OF P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSEPCTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE.									

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8011G	NASA DATA: BASELINE [ ] NEW [ X ]									
SUBSYSTEM: MDAC ID: ITEM:	8011 TV CAMERA D (RM	S STBD POSITION	I FWD)								
LEAD ANALYST: W.C. LONG											
ASSESSMENT:											
CRITICAL FLIGH		NCY SCREENS	CIL ITEM								
HDW/FU		в с	TIET								
NASA [ 2 /2 IOA [ 2 /1R	[ P ]	[ ] [ ] [ P ] [ P ]	[ X ] * [ X ]								
COMPARE [ /N	] [N]	[и] [и]	[ ]								
RECOMMENDATIONS:	(If different	from NASA)									
[ 2 /1R	[ P ]	[ P ] [ P ]	[ ] (ADD/DELETE)								
	RATIONALE: (If a	ADEQ	QUATE [ X ] QUATE [ ]								
REMARKS: LOSS OF TVC COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING OF P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSEPCTION AND RMS JETTISON TO ALLOW											
P/L BAY DOOR CLO	SURE.										

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8011H	[ x ]									
SUBSYSTEM: MDAC ID: ITEM:	8011 TV CAMERA D (RMS	011 V CAMERA D (RMS STBD POSITION FWD)									
LEAD ANALYST:	AD ANALYST: W.C. LONG										
ASSESSMENT:											
FLIGH		CY SCREENS  B C	CIL ITEM								
HDW/FU											
NASA [ 2 /2 IOA [ 2 /1R		P ] [ P ]	[ X ] * [ X ]								
COMPARE [ /N	] [ N ] [	и] [и]	[ ]								
RECOMMENDATIONS:	(If different	from NASA)									
[ 2 /1]	R] [P] [	P ] [ P ] (Al	[ ] DD/DELETE)								
* CIL RETENTION	RATIONALE: (If app	plicable) ADEQUATE INADEQUATE									
CAPABILITY TO PE MONITORING OF P/ VEHICLE AND CREW	ERFORM CCTV FUNCTION OF LATCHES O	OF MISSION. LOSS OF MISSION. LOSS OF MISSION. LOSS OF THE COULD PREVENT RMS SECURITY OF THE COULD POSS	F ALL S STOW AND IBLE LOSS OF WINDOW								

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8011I 2.3.2	NASA DATA BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	8011 TV CAMERA D (RMS S	TBD POSITION FWD)	
LEAD ANALYST:	W.C. LONG	·	
ASSESSMENT:			
CRITICAL: FLIGHT	ITY REDUNDANCY	SCREENS	CIL ITEM
HDW/FUI		c	IIEM
NASA [ 2 /2 IOA [ 2 /1R	] [ ] [ P	] [ ] [ ] [ P ]	[ X ] *
COMPARE [ /N	] [ N ] [ N	] [ N ]	[ ]
RECOMMENDATIONS:	(If different fr	om NASA)	
[ 2 /1R	] [P] [P		[ ] DD/DELETE)
* CIL RETENTION I	RATIONALE: (If appl	icable) ADEQUATE INADEQUATE	
CAPABILITY TO PER MONITORING OF P/I VEHICLE AND CREW VIEWING,	D RESULT IN LOSS OF RFORM CCTV FUNCTION L BAY DOOR LATCHES . UNLIKE REDUNDANC CREW VISUAL INSEPC SURE.	MISSION. LOSS O COULD PREVENT RM RESULTING IN POSS Y EXISTS VIA CREW	F ALL S STOW AND IBLE LOSS OF WINDOW

ASSESSME ASSESSME NASA FME	ידע	TD	):	COMT	RK-	801	.1J						N			DATA: LINE NEW	[		]		
SUBSYSTE MDAC ID: ITEM:				8011 TV C	AME:	RA	D	(RMS	5 8	ST	BD	POS	ניו	ľI	ON	FWD)					
LEAD ANA	LYS	T:		W.C.	LO	NG															
ASSESSME	NT:																				
				ITY		RI	EDU	NDA	1C.	Y	SC	REEN	S					IL PEN	Æ		
			JIGH' /FU			A			:	В			(	C			_		•		
NASA IOA	[	2	/2 /1R	]	]	P	]		[	P	]	]		P	]		[	X X	]	*	
COMPARE	[		/N	]	[	N	]		[	N	]	(	1	N	]		[		]		
RECOMMEN	TADI	'IC	ons:	(I	f d	if	fer	ent	f	rc	m	nas <i>i</i>	۲)								
	[	2	/1R	. ]	[	P	]		[	P	]	ĺ		P	]	(A			ELI	ETE)	)
* CIL RI	ETEN	T	ION	RATIO	NAL	E:	(I	f a	pp	11	Lca		4			ATE ATE		x			
REMARKS	:								_	_			<b></b>		τ.	\CC	. TCP	<b>7.</b> T	T		
LOSS OF	TVC	) (	COUL	D RES	ULI	' I	IN ਸਾ	JOSS IMCT	U TO	N T	CO WT	SSIC OUTIN	אנ פי	RF	VEN	IT RM	s S	ST(	OW.	AN	D
MONTTOR	ING	O	F P/	T. BAY	DC	OR	LA	ATCH	ES	; ]	RES	ULT.	LN	G3	<b>381</b> 6	HONS	TR	خلا	L	JSS	OF
VEHICLE	ANI	) (	CREW	UN	LIK	Œ	REI	ממטכ	AN	IC?	ľΕ	XIS!	rs	7	7IA	CREW	W	IN	DO	N	
VIEWING	,			AD TO			3 T	TNO	e r	) (C) [	n T 🔿	ואר או	J D	T	)MC	. र स्टब्ब्ल	TS	∩N	ጥረ	) A	W0.1.T
EVA AND						.SU	АL	TNS	cf	-C.	LIC	M A	<b>₹</b> D	r	aro	TITL	10	<b>-11</b>	_`	J 41.	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8011K	NASA DATA: BASELINE [ ]							
NASA FMEA #:	2.3.5			[ x ]					
SUBSYSTEM: MDAC ID: ITEM:	8011 TV CAMERA D (RMS	STBD POS	ITION FWD)						
LEAD ANALYST:	W.C. LONG								
ASSESSMENT:									
	ITY REDUNDAN	CY SCREEN	5	CIL					
FLIGHT HDW/FUN	NC A	В	С	ITEM					
NASA [ 2 /2 IOA [ 2 /1R	] [ ] [ ] [ P ] [	P ] [	P ]	[ X ] * [ X ]					
COMPARE [ /N	] [N][	и ј [	N ]	[ ]					
RECOMMENDATIONS:	(If different	from NASA							
[ 2 /1R	] [P] [	P ] [		[ ] DD/DELETE)					
* CIL RETENTION F	RATIONALE: (If ap	-	ADEQUATE NADEQUATE						
REMARKS: LOSS OF TVC COULD	DECLIEM THE LOCK	OF MISSION	1 1055 01	7 377					
CAPABILITY TO PER MONITORING OF P/I VEHICLE AND CREW. VIEWING,	RFORM CCTV FUNCTI L BAY DOOR LATCHE	ON COULD I S RESULTIN	PREVENT RMS	S STOW AND BLE LOSS OF					
EVA AND COAS FOR P/L BAY DOOR CLOS		PCTION AND	RMS JETTI	SON TO ALLO					

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8011L 2.1.4		NASA DATA: BASELINE NEW	[ ]
SUBSYSTEM: MDAC ID: ITEM:	8011 TV CAMERA D (RM	s stbd posi	(TION FWD)	
LEAD ANALYST:	W.C. LONG			
ASSESSMENT:				
CRITICAL FLIGH	T	NCY SCREENS	S C	CIL ITEM
HDW/FU	NC A	В	C	
NASA [ 3 /1R ] IOA [ 2 /1R	] [ P ] ] [ P	[ P ] [ [ P ] [	P ] P ]	[ x ] *
COMPARE [ N /	] [ ]	[ ] [	1	[ N ]
RECOMMENDATIONS:	(If different	from NASA	)	
[ /	] [ ]	[ ] [	] (AI	[ ] OD/DELETE)
* CIL RETENTION	RATIONALE: (If a		ADEQUATE NADEQUATE	[ X ]
REMARKS: LOSS OF OUTPUT C FUNCTION WAS ANA				-

ASSESSME ASSESSME NASA FME	NT	IL	):	COM	rrk-	-8011M BASELIN								[			]			
SUBSYSTE MDAC ID: ITEM:				801: TV (		RA	D	(RM	S	Sī	rBD	POS	IT:	CON	FW	D)				
LEAD ANA	LYS	T:		W.C	. Lo	NG														
ASSESSME	NT:																			
		FI	LIGHT					JNDA			SCR	EEN						CL CEN		
	Н	DW	// FUI	1C		A				В			С							
NASA IOA	[	3 2	/1R /1R	]	[	P P	]		[	P P	]	[	P P	]			[	x	]	*
COMPARE	C	N	/	]	[		]		[		]	[		]			[	N	]	
RECOMMEN	DAT	'IC	NS:	()	[f d	ifi	fer	ent	f	ro	om N	ASA	)							
	[		/	]	[		]		[		]	[		]		(AI			] ELE	ETE)
* CIL RE	TEN	TI	ON E	RATIO	ONAL	E:	(1	f a	pp	lj	cab		IA IAN	EQ1	UAT UAT	E E	[	x	]	
REMARKS: LOSS OF FUNCTION						LJ	יעכ	FU	NC	TI	ONS	. (	INC	Ϋ́	THE	WC	RS	T	CF	SE

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:			-	NASA DATA BASELINE NEW					
SUBSYSTEM: MDAC ID: ITEM:	8011 TV CAMERA	D (RMS	STBD POS	ITION FWD)					
LEAD ANALYST:	W.C. LONG	<del>;</del>							
ASSESSMENT:									
CRITICAL FLIGH HDW/FU			y screen B	s C	CIL ITEM				
NASA [ 3 /1R IOA [ 2 /1R	] [ P	9] [	P ] [	P ] P ]	[ x ] *				
COMPARE [ N /	] [	] [	] [	1	[ N ]				
RECOMMENDATIONS:	(If dif	ferent f	rom NASA	)					
[ /	] [	] [	] [	] (A	[ ] ADD/DELETE)				
* CIL RETENTION	RATIONALE:	(If app		ADEQUATE NADEQUATE					
REMARKS: LOSS OF OUTPUT COVERS ALL TVC FUNCTIONS. ONLY THE WORST CASE FUNCTION WAS ANALYSED.									

ASSESSMENT ASSESSMENT NASA FMEA #	ID:	COMTRK-	80110		NASA DATA BASELINE NEW	[ ] [ x ]
SUBSYSTEM: MDAC ID: ITEM:		8011 TV CAME	RAD (R	MS STBD P	OSITION FWD)	
LEAD ANALYS	T:	W.C. LOI	NG			
ASSESSMENT:						
	TICAL: FLIGHT DW/FUI	<u> </u>	REDUND.	ANCY SCRE B	ENS C	CIL ITEM
NASA [ IOA [	3 /3 2 /1R	] [	p ]	[ ] [ P ]	[ ] [ P ]	[ x ] *
COMPARE [	n /n	] [	<b>N</b> ]	[и]	[ N ]	[ N ]
RECOMMENDAT	ions:	(If d	ifferen	t from NA	SA)	
£	/	] [	]	[ ]	[ ] (A	[ ] DD/DELETE)
* CIL RETEN  REMARKS:			·		e) ADEQUATE INADEQUATE ONLY THE W	į
FUNCTION WA			• \			

	3/05/88 COMTRK-8 2.2.3.2	8011P	NASA DAT BASELIN NE	A DATA: SELINE [ ] NEW [ X ]					
SUBSYSTEM: MDAC ID: ITEM:	8011 TV CAME	RAD (R	MS STBD 1	POSITION FWD	)				
LEAD ANALYST:	W.C. LO	NG							
ASSESSMENT:									
CRITICAL		REDUND	EENS	CIL ITEM					
FLIGH HDW/FU		A	В	С	<b>110.</b>				
NASA [ 3 /3 IOA [ 2 /1R	] [	p ]	[ ] [ P ]	[ ] [P]	[ ] * [ x ]				
COMPARE [ N /N	] [	и ]	[ N ]	[ N ]	[ N ]				
RECOMMENDATIONS: (If different from NASA)									
[ /	] [	]	[ ]	{ ]	[ ] ADD/DELETE)				
* CIL RETENTION	RATIONAL	E: (If	applicab	le) ADEQUATE INADEQUATE					
REMARKS: LOSS OF OUTPUT OF FUNCTION WAS ANA		L TVC I	FUNCTIONS	. ONLY THE	WORST CASE				

ASSESSMENT ASSESSMENT NASA FMEA	'ID:	COMTRK-	COMTRK-8011Q						DATA: LINE NEW	[	Ï
SUBSYSTEM: MDAC ID: ITEM:		8011 TV CAME	ERA	D (RMS	s s:	rbd Pe	osi	TION	FWD)		
LEAD ANALYST: W.C. LONG											
ASSESSMENT	! <b>:</b>										
	ITICAL FLIGH HDW/FU		RE A	DUNDAN	ICY B	SCRE	REENS C			CIL ITEM	
	now/ ro	nc .	А		ם						
NASA [ ] AOI	3 /3 2 /1R	] [	P	] [	P	]	[	P ]		[ x	] *
COMPARE [	N /N	1. [	N	J C	N	]	[	<b>N</b> ]		[ N	1.55
RECOMMENDA	TIONS:	(If d	liff	erent	fro	om NAS	SA)		-		
[	/	] [	•	]. [		]	[	]	(AD	[ D/D	] ELETE)
* CIL RETE	NTION	RATIONAL	E:	(If ap	pli	icable	٠,	ADEQU ADEQU		•	]
LOSS OF OU FUNCTION W			L T	VC FUN	CT]	ONS.	0	NLY T	HE WC	RST	CASE

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8 5.1.1	3012	NASA DATA: BASELINE NEW		
SUBSYSTEM: MDAC ID: ITEM:	COMM AND 8012 TV CAMER	TRACK	ST		
LEAD ANALYST:	W.C. LON	1G			
ASSESSMENT:					
FLIGHT	r	REDUNDANG			CIL ITEM
HDW/FU	NC	A	В	C	
NASA [ 2 /2 IOA [ 3 /2R	] [	P ] [	P ] [	[ ] [ P ]	[ X ] * [ ]
COMPARE [ N /N	] [	и][	и] [и	[и]	[ N ]
RECOMMENDATIONS:	(If d	ifferent :	from NASA	7)	
[ /	] [	] [	] [	[ ] [A]	[ ] DD/DELETE)
* CIL RETENTION	ΡΆ <b>ͲΤΛΝ</b> ΆΤ.Ι	F· (If an	olicable)	<b>)</b>	
- CIL RETENTION		u. (11 ap)		ADEQUATE INADEQUATE	
REMARKS: LOSS OF TVC OUTPOURS WRIST TVC NOT US PROVIDES PARTIAL REDUNDANCY EXIST VISUAL INSPECTION. ALL RESULT IN LOSS OF	ED TO MOI REDUNDAI S VIA CRI CAPABILI	NITOR CRI' NCY FOR M EW WINDOW ITY TO PE	FICAL FUNISSION SUVIEWING	NCTIONS AND UPPORT. UNI , EVA AND CO	ELBOW TVC LIKE OAS FOR CREW

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8012A		NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8012 TV CAMERA RMS		•	** ***
LEAD ANALYST:	W.C. LONG			
ASSESSMENT:				
CRITICAL: FLIGHT	ITY REDUNDA	ANCY SCREENS		CIL ITEM
HDW/FUI	NC A	В	<b>C</b>	
NASA [ 2 /2 IOA [ 3 /2R	] [ p ]	[ P ] [	p ]	[ X ] *
COMPARE [ N /N	] [ N ]	[ N ]	N ]	[ N ]
RECOMMENDATIONS:	(If different	from NASA)	- The second	5. The state of th
[ /	] [ ]	[ ] [	] (AD	[ ] D/DELETE)
* CIL RETENTION I	RATIONALE: (If a		ADEQUATE ADEQUATE	[ X ]
REMARKS: LOSS OF TVC OUTPOURIST TVC NOT USING PROVIDES PARTIAL REDUNDANCY EXISTS VISUAL INSPECTION. ALL RESULT IN LOSS OF	ED TO MONITOR CE REDUNDANCY FOR VIA CREW WINDO CAPABILITY TO I	RITICAL FUNC MISSION SUP DW VIEWING,	TIONS AND PORT. UNI EVA AND CO	ELBOW TVC IKE AS FOR CREW

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-801	.2B	NASA DAT BASELIN NE						
	COMM AND T 8012 TV CAMERA								
LEAD ANALYST:	W.C. LONG								
ASSESSMENT:									
CRITICAL FLIGH		EDUNDANCY S	CREENS	CIL ITEM					
HDW/FU		В	С						
NASA [ 2 /2 IOA [ 3 /2R	] [ P	] [ p ]	[ ] [ P ]	[ X ] *					
COMPARE [ N /N	] [ N	] [ N ]	[ N ]	[ N ]					
RECOMMENDATIONS:	(If diff	erent from	NASA)						
. [ /	J [	] [ ]	[ ]	[ ] ADD/DELETE)					
* CIL RETENTION	RATIONALE:	(If applic	able) ADEQUATE INADEQUATE						
REMARKS: LOSS OF TVC OUTPUT RESULTS IN REDUCED MISSION EFFECTIVENESS. WRIST TVC NOT USED TO MONITOR CRITICAL FUNCTIONS AND ELBOW TVC PROVIDES PARTIAL REDUNDANCY FOR MISSION SUPPORT. UNLIKE REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CRE VISUAL INSPECTION. ALL CAPABILITY TO PERFORM WRIST TVC FUNCTION COULD RESULT IN LOSS OF MISSION.									
KESULT IN LOSS O	r MISSION.								

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-	8012C		NASA DATA BASELINE NEW					
	8012	COMM AND TRACK 1012 TV CAMERA RMS WRIST							
LEAD ANALYST:	W.C. LO	.c. Long							
ASSESSMENT:									
	ITY	REDUNDA	NCY SCRE		CIL ITEM				
FLIGH HDW/FU		A	В	C	IIEM				
NASA [ 2 /2 IOA [ 3 /2R	] [	p ]	[ ] [ P ]	[ ] [ P ]	[ X ] * [ ]				
COMPARE [ N /N	] [	и ј	[ N ]	[ N ]	[ N ]				
RECOMMENDATIONS:	(If d	ifferent	from NA	SA)					
[ /	] [	1	[ ]	[ ] (A	[ .DD/DELETE)				
* CIL RETENTION	RATIONAL	E: (If a	pplicabl						
				ADEQUATE INADEQUATE					
REMARKS:	um preut	MC TN DE	DIICED MI	CCTON PEPECT	TTTENECC				
WRIST TVC NOT US	LOSS OF TVC OUTPUT RESULTS IN REDUCED MISSION EFFECTIVENESS. WRIST TVC NOT USED TO MONITOR CRITICAL FUNCTIONS AND ELBOW TVC								
PROVIDES PARTIAL	REDUNDA	NCY FOR	MISSION	SUPPORT. UN	LIKE				
REDUNDANCY EXIST	S VIA CR	EW WINDO	W VIEWIN	G, EVA AND C	OAS FOR CREW				
VISUAL	CADARTI	ተጥ <b>∨ ጥ</b> ለ ፔ	w Macada	מווא ישער ייוא	CTTON COLLD				

RESULT IN LOSS OF MISSION.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8012D	NASA DATA: BASELINE [ ] NEW [ X ]						
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8012 TV CAMERA RMS WRI	IST						
LEAD ANALYST:	W.C. LONG							
ASSESSMENT:								
CRITICAL: FLIGH: HDW/FUI	—	CY SCREENS  B C	CIL ITEM					
NASA [ 2 /2 IOA [ 3 /2R	] [ ] [ ] [ P ]	P ] [ P ]	[ X ] * [ ]					
COMPARE [ N /N	] [ N ] [	и] [и]	[ и ]					
RECOMMENDATIONS:	(If different i	from NASA)						
[ /	] [ ] [	·] [ ]	[ (ADD/DELETE)					
	RATIONALE: (If app	plicable) ADEQUATI INADEQUATI	E [ X ] E [ ]					
WRIST TVC NOT US PROVIDES PARTIAL REDUNDANCY EXIST VISUAL	UT RESULTS IN REDUCED TO MONITOR CRITER REDUNDANCY FOR MISS VIA CREW WINDOW CAPABILITY TO PERFORM TO SELECTION.	FICAL FUNCTIONS AND VIEWING, EVA AND	ND ELBOW TVC JNLIKE COAS FOR CREW					

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK- 5.2.2	8012E	NASA DATA BASELINE NEW						
SUBSYSTEM: MDAC ID:	COMM AN								
LEAD ANALYST:									
ASSESSMENT:									
CRITICAL FLIGH HDW/FU	T	REDUNDA A	ANCY SCREET	ns C - Harri	CIL ITEM				
NASA [ 2 /2 IOA [ 3 /2R	] [	p ]	[	[ ] [ P ]	[ X ] * [ ]				
COMPARE [ N /N	) [	N ]	[ N ]	[и]	[ א ]				
RECOMMENDATIONS:	(If d	ifferent	t from NAS	A)					
[ /	] [	-]	[ ]	[ ] (A	[ ] .DD/DELETE)				
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]									
REMARKS: LOSS OF TVC OUTP WRIST TVC NOT US PROVIDES PARTIAL REDUNDANCY EXIST VISUAL INSPECTION. ALL	ED TO MO REDUNDA S VIA CR	NITOR CE NCY FOR EW WINDO	RITICAL FUI MISSION SI DW VIEWING	NCTIONS AND UPPORT. UN , EVA AND C	ELBOW TVC LIKE OAS FOR CREW				
RESULT IN LOSS O	F MISSIO	N.							

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8012F	ASA DATA: BASELINE [ NEW [ X	]						
	COMM AND TRACK 8012 TV CAMERA RMS WRI								
LEAD ANALYST:	W.C. LONG								
ASSESSMENT:									
CRITICAL FLIGH	ITY REDUNDANC	CY SCREENS	CIL ITE						
<del>-</del>	NC A	ВС							
NASA [ 2 /2 IOA [ 3 /2R	[ P ] [	P ] [ P	] [ X	] *					
COMPARE [ N /N	] [N][	и ] [и	] [ N	]					
RECOMMENDATIONS:	(If different i	from NASA)							
[ /	] [ ] [	j [	] [ (ADD/D)	] ELETE)					
	RATIONALE: (If app	AI	DEQUATE [ X DEQUATE [	]					
WRIST TVC NOT US PROVIDES PARTIAL REDUNDANCY EXIST VISUAL	PUT RESULTS IN REDUCED TO MONITOR CRITER REDUNDANCY FOR MISSION.	FICAL FUNCT ISSION SUPPO VIEWING, EV	IONS AND ELBO ORT. UNLIKE VA AND COAS	OW TVC					

ASSESSMENT ID: COMTRK-8012G BASELIN								LINE	TA: JE [ ] ZW [ X ]											
SUBSYSTI MDAC ID ITEM:	EM:			C(	OMM AND TRACK 012 V CAMERA RMS WRIST									, i		- · .				
LEAD ANALYST: W.C. LONG												-								
ASSESSMI	ENT	:															÷ + 2.	s .	;	i in the second
	CR		_		Z		RI	ED	UNDAN	CY	sc	REE	NS	;			C			
		_	LIGH W/FU				A			В				С			1,1	CEN	i	
NASA IOA	[	2	/2 /2F	]		[	P	]	[	P	]		]	P	]		[	X	]	*
COMPARE	ι	N	/N	]			N	]	[	N	]		[	N	]		[	N	]	
RECOMMEN	NDA'	TI:	ons:		(If	đ:	if	fe:	rent	fr	om	NAS	A)					_		
	[		/			[		]	. [		]		[		]	(A)	[ DD/	DI	] ELE	TE)
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]																				
REMARKS		_	orim.		DEG	***	n.c	<b>T</b> 1	N DEC	TT (	m <b>n</b>	WTC					-		•	
LOSS OF WRIST T	7C :	NO'	T US	ED	TO :	MOI	II.	CO1	R CRI	ΤĮ	CAL	FU	NC	T]	CONS	AND	ΕI	LBC		
PROVIDES PARTIAL REDUNDANCY FOR MISSION SUPPORT. UNLIKE																				
VISUAL	REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL																			
INSPECT:								ζ :	TO PE	RF	ORM	WR	IS	Т	TVC	FUN	CT]	ON	C	OULD

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8012	н	NASA DATA: BASELINE [ ] NEW [ X ]					
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TR 8012 TV CAMERA R							
LEAD ANALYST:	W.C. LONG							
ASSESSMENT:								
CRITICAL FLIGH HDW/FU	T	OUNDANCY SCR B	REENS C	CIL ITEM				
NASA [ 2 /2 IOA [ 3 /2R	] [ ]	[ ] [P]	[ p ]	[ X ] * [ ]				
COMPARE [ N /N	] [ N ]	[ N ]	[ N ]	[ N ]				
RECOMMENDATIONS:	(If diffe	erent from N	NASA)					
. [ /	] [ ]	[ ]	[ ]	[ ] (ADD/DELETE)				
* CIL RETENTION	RATIONALE: (	(If applicat	ole) ADEQUATI INADEQUATI	E [ X ] E [ ]				
REMARKS: LOSS OF TVC OUTP WRIST TVC NOT US PROVIDES PARTIAL REDUNDANCY EXIST VISUAL INSPECTION. ALL	ED TO MONITO REDUNDANCY S VIA CREW W	OR CRITICAL FOR MISSION WINDOW VIEW	IISSION EFFE FUNCTIONS AI N SUPPORT. U ING, EVA AND	CTIVENESS. ND ELBOW TVC JNLIKE COAS FOR CREV				
PESHIT IN LOSS O		TO PERFORM	MUTOT IAC L	MCTION COOLD				

ASSESSMENT DATE:	3/05/88			NASA DATA					
ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-	8012I	[ ] [ x ]						
SUBSYSTEM: MDAC ID: ITEM:	8012	COMM AND TRACK 3012 TV CAMERA RMS WRIST							
LEAD ANALYST:	W.C. LO	NG							
ASSESSMENT:									
CRITICAL: FLIGH		REDUNDANC	Y SCREEN	S	CIL ITEM				
<del> </del>	NC	A	В	С					
NASA [ 2 /2 IOA [ 3 /2R	] [	P ] [	p ] [	P ]	[ X ] *				
COMPARE [ N /N	] [	и ] [	и] [	n j	[ N ]				
RECOMMENDATIONS:	(If d	ifferent f	rom NASA	.)					
[ /	] [	] [	] [	] · (A)	[ DD/DELETE)				
* CIL RETENTION	RATIONAL	E: (If app		ADEQUATE NADEQUATE	[ X ]				
REMARKS: LOSS OF TVC OUTPOURS WRIST TVC NOT US: PROVIDES PARTIAL REDUNDANCY EXIST	ED TO MOI REDUNDAI	NITOR CRIT NCY FOR MI	CED MISS ICAL FUN SSION SU	ION EFFECT: CTIONS AND PPORT. UNI	IVENESS. ELBOW TVC LIKE				
TTCTIAT			•	* * * * * * * * * * * * * * * * * * * *					

INSPECTION. ALL CAPABILITY TO PERFORM WRIST TVC FUNCTION COULD

RESULT IN LOSS OF MISSION.

ASSESSMENT DATE: 3/05/88 ASSESSMENT ID: COMTRK-8012J NASA FMEA #: 5.3.3.1 NEW [ X	]
SUBSYSTEM: COMM AND TRACK MDAC ID: 8012 ITEM: TV CAMERA RMS WRIST	
LEAD ANALYST: W.C. LONG	
ASSESSMENT:	
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEN	
HDW/FUNC A B C	
NASA [2/2] [] [] [X IOA [3/2R] [P] [P] [P] [	] * ]
COMPARE [N/N] [N] [N] [N	]
RECOMMENDATIONS: (If different from NASA)	
[ / ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [	
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X INADEQUATE [	]
REMARKS:	J
LOSS OF TVC OUTPUT RESULTS IN REDUCED MISSION EFFECTIVENS WRIST TVC NOT USED TO MONITOR CRITICAL FUNCTIONS AND ELBO	
PROVIDES PARTIAL REDUNDANCY FOR MISSION SUPPORT. UNLIKE	
REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS I	FOR CRE
INSPECTION. ALL CAPABILITY TO PERFORM WRIST TVC FUNCTION	4 COULD

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8	COMTRK-8012K BASELINE (					
	COMM AND 8012 TV CAMED			1			
LEAD ANALYST:	W.C. LOI	NG					
ASSESSMENT:							
CRITICAL FLIGH	r			SCREE	NS C	CIL ITEM	
HDW/FUI	NC	A	В		Ç		
NASA [ 2 /2 IOA [ 3 /2R	] [	] P ]	[ [ P	]	[ ] [ P ]	[ X ] *	
COMPARE [ N /N	] [	<b>N</b> ]	[ N	]	[и]	[ N ]	
RECOMMENDATIONS:	(If d	ifferen	t fro	m NASA	A)		
[ /	] [	J	[	]	[ ] <b>(</b> A)	[ ] DD/DELETE)	
* CIL RETENTION I	RATIONALI	E: (If a	appli		) ADEQUATE INADEQUATE	[ X ]	
REMARKS: LOSS OF TVC OUTPUT RESULTS IN REDUCED MISSION EFFECTIVENESS. WRIST TVC NOT USED TO MONITOR CRITICAL FUNCTIONS AND ELBOW TVC PROVIDES PARTIAL REDUNDANCY FOR MISSION SUPPORT. UNLIKE REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW							
VISUAL INSPECTION. ALL RESULT IN LOSS OF			PERFO	RM WR	IST TVC FUN	CTION COULD	

ASSESSME ASSESSME NASA FME	NT	II		CC	MTRI		301	L2L								DATA LINE NEW	3	[ :	X	]		
SUBSYSTE MDAC ID: ITEM:	M:			80	MM 2 12 7 CAN					RIS	ST	•										
LEAD ANA	LYS	ST	:	W.	.c. 1	LOI	١G															
ASSESSME	NT	:																				
	CR:		ICAL LIGH		ľ		RI	EDUN	IDA	NC	Z	SCREI	ENS	3				CII		[		
	1		W/FU				A			I	3			С								
NASA IOA	[	3	/2R /2R	]		[	P P	]		[ ] [ ]	<b>P</b>	]	[ [	P P	]			[ [		]	*	
COMPARE	[		/	]		[	-	]		[		]	[		]			[		]		
RECOMMEN	DA'	ΓI	ons:		(If	<b>d</b> :	if	fere	ent	fı	rc	m NAS	SA	)								
	[		/	]		[		]		[		]	[		]	(2		[ D/1			ETE)	
* CIL RE	TE	NT:	ION	RA!	rion	AL	E:	(If	E a	pp]	li	.cabl				ATE ATE		[ :	X	]		
REMARKS:																						

CRITICALITIES IN AGREEMENT.

ASSESSMENT DATE: 3/05/88 ASSESSMENT ID: COMTRK-8012M NASA FMEA #: 5.2.4 SUBSYSTEM: COMM AND TRACK												DATA LINE NEW	[		] ]	= =				
SUBSYSTEMDAC ID:				80						RI	SI	•								
LEAD ANA	LYS	T:	:	W.	c. 1	LOI	NG									-	4.2.2		-	
ASSESSME	NT:	;																		
,	CRI		CAL LIGH				RJ	EDUI	NDA	NC.	Y	SCF	REEN	S			CI IT			
	F		/FU				A				В			C				EM		
NASA IOA	[	3 3	/2R /2R	]		]	P P	]		[ ]	P P	]	[ ]	F	) )		] [	]	] ]	*
COMPARE	[		/	]		[		]		[		]	[		]		[	]	Ì	
RECOMMEN	DAI	CIC	ons:		(If	d:	if	fer	ent	<b>f</b> :	rc	m N	IASA	.)						
	[	·	/	]		[		]		[		]	[		]	(A	[ .DD/	DEI	JE	TE)
* CIL RE	TEN	T	ION :	RAT:	ION	AL	E:	(I:	f a	pp	li	.cak		A		JATE JATE		X ;	]	
REMARKS:	רחד	r Er (	S TN	λCI	REEI	MTE:1	ידינא													

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8012N 5.3.4		A DATA: SELINE [ ] NEW [ X ]
	COMM AND TRACK 8012 TV CAMERA RMS W	RIST	• • • • • • • • • • • • • • • • • • •
LEAD ANALYST:	W.C. LONG		
ASSESSMENT:			
CRITICAL: FLIGHT	r	ANCY SCREENS	CIL ITEM
HDW/FUI	NC A	в с	
NASA [ 3 /2R IOA [ 3 /2R	] [ P ] ] [ P ]	[ P ] [ P ] [ P ] [ P ]	[ ] *
COMPARE [ /	] [ ]	[ ] [ ]	[ ]
RECOMMENDATIONS:	(If different	from NASA)	
[ /	] [ ]	נ ז נ ז	[ ] (ADD/DELETE)
* CIL RETENTION : REMARKS: CRITICALITIES IN		ADE	QUATE [ X ] QUATE [ ]

ASSESSMENT DATE:	3/05/88		NASA DATA: BASELINE [ ]				
ASSESSMENT ID: NASA FMEA #:	COMTRK-8 5.1.3.2	0120		NEI	M [ X ]		
SUBSYSTEM: MDAC ID: ITEM:	COMM AND 8012 TV CAMER						
LEAD ANALYST:	W.C. LON	iG					
ASSESSMENT:							
CRITICALI FLIGHT	-	REDUNDA	ANCY SCR	EENS	CIL ITEM		
HDW/FUN		A	В	С			
NASA [ 3 /2R IOA [ 3 /2R	] [	P ] P ]	[ P ] [ P ]	[ P ] [ P ]	[ ] *		
COMPARE [ /	] [	]	[ ]	[ ]	[ ]		
RECOMMENDATIONS:	(If di	fferent	t from N	ASA)			
[ /	] [	]		[ ] (2	[ ADD/DELETE)		
* CIL RETENTION F	RATIONALE	: (If a	applicab	le) ADEQUATE	[ X ]		
DFMADEC.				INADEQUATE			
REMARKS: LOSS OF OUTPUT COVERS ALL TVC FUNCTIONS. ONLY WORST CASE FUNCTION ANALYSED.							

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:		MTRK-8012P BASELINE [					
MDAC ID:	COMM AND 8012 TV CAMER						
LEAD ANALYST:	W.C. LON	1G					
ASSESSMENT:							
CRITICAL FLIGH		REDUND	ANCY SCR	EENS	CIL ITEM		
HDW/FU		A	В	C			
NASA [ 3 /2R IOA [ 3 /2R	] [	P ] P ]	[ P ] [ P ]	[ P ] [ P ]	[ ] *		
COMPARE [ /	] [	]	[ ]	[ ]	[ ]		
RECOMMENDATIONS:	(If d	ifferen	nt from N	ASA)			
[ /	] [	]	[ ]	[ ]	[ ] (ADD/DELETE)		
* CIL RETENTION	RATIONAL	E: (If	applicab	le) ADEQUA: INADEQUA:			
REMARKS: LOSS OF OUTPUT C FUNCTION ANALYSE		L TVC F	TUNCTIONS	. ONLY WO	RST CASE		

ASSESSME ASSESSME NASA FME	ENT I	D:	COMTR	K-8(	)12Q				DATA: ELINE [ NEW [		
SUBSYSTE MDAC ID:			COMM 8012 TV CA				T				
LEAD ANA	LYST	!:	W.C.	LONG	3						
ASSESSME	ENT:										
	F	LIGH	ITY F NC			idancy B		reens C		IL TEM	
NASA IOA	[ 3	/2R /2R	]	[ F	P ]	[ P	]	[ P ] [ P ]	]	]	*
COMPARE	[	/	]	[	]	[	]	[ ]	[	]	
RECOMMEN	DATI	ons:	(If	dif	fere	nt fr	om N	ASA)			
	נ	/	]	[	]	ι	]	[ ]		DEL	
REMARKS:					·				UATE [ UATE [	_	
LOSS OF FUNCTION				ALL	ΊΛΩ	FUNCT	TONS	. ONLY	WORST C	ASE	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-			NASA DATA BASELINE NEW			
	COMM AND 8013 TV CAME	D TRACK RA RMS E	LBOW				
LEAD ANALYST:	W.C. LO	NG					
ASSESSMENT:							
CRITICAL: FLIGH		REDUNDA	NCY SCREEN	IS	CIL ITEM		
	NC	A	В	С	<u> </u>		
NASA [ 2 /2 IOA [ 3 /2R	] [	p ]	[ ] [ [ P ] [	P ]	[ X ] *		
COMPARE [ N /N	] [	N ]	[и]	N ]	[ N ]		
RECOMMENDATIONS:	(If d	ifferent	from NASA	7)			
[ /	] [[	]		[ ] (A	[ ] DD/DELETE)		
* CIL RETENTION	RATIONAL	E: (If a		ADEQUATE (NADEQUATE			
REMARKS: LOSS OF TVC OUTOUT COULD RESULT IN REDUCED MISSION EFFECTIVENESS ELBOW TVC NOT USED TO MONITOR CRITICAL FUNCTIONS AND WRIST TVC PROVIDES PARTIAL REDUNDANCY FOR MISSION SUOPPORT. UNLIKE REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION. ALL CAPABILITY TO PERFORM ELBOW TVC FUNCTION							

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-801		NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	COMM AND T 8013 TV CAMERA			
LEAD ANALYST:	W.C. LONG			
ASSESSMENT:				
CRITICAL: FLIGH		DUNDANCY SCREENS	;	CIL ITEM
HDW/FU		В	С	IIEM
NASA [ 2 /2 IOA [ 3 /2R	] [ ] [ P	] [ p ] [	p ]	[ X ] *
COMPARE [ N /N	] [ N	] [ N ] [	и ]	[ N ]
RECOMMENDATIONS:	(If diff	erent from NASA)		
[ /	1 .	1 [ 1 [	] (AI	[ ] DD/DELETE)
* CIL RETENTION I	RATIONALE:		ADEQUATE	
REMARKS:		IN	ADEQUATE	[ ]
LOSS OF TVC OUTOU ELBOW TVC NOT US PROVIDES PARTIAL	ED TO MONIT	OR CRITICAL FUNC	TIONS AND	WRIST TVC
REDUNDANCY EXISTS VISUAL INSPECTION COULD RESULT IN	S VIA CREW N. ALL CAP	WINDOW VIEWING, PABILITY TO PERFO	EVA AND CO	AS FOR CREW

ASSESSMENT DATE: 3/05/88

NASA DATA:

ASSESSMENT ID: NASA FMEA #:			BASELIN: NE	E [ ] W [ X ]			
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRA 8013 TV CAMERA RM						
LEAD ANALYST:	W.C. LONG						
ASSESSMENT:							
CRITICAL: FLIGHT	ITY REDUI	NDANCY SCRE	ENS	CIL ITEM			
HDW/FUI	NC A	В	С				
NASA [ 2 /2 IOA [ 3 /2R	] [ p ]	[ p]	[ ] [ P ]	[ X ] *			
COMPARE [ N /N	] [N]	[ N ]	[и]	[ N ]			
RECOMMENDATIONS:	(If differ	ent from NA	SA)				
[ /	] [ ]	. [ ]	. [ ]	[ ] ADD/DELETE) .			
* CIL RETENTION 1	RATIONALE: (I	f applicabl	.e) ADEQUATE INADEQUATE				
REMARKS: LOSS OF TVC OUTOUT COULD RESULT IN REDUCED MISSION EFFECTIVENESS ELBOW TVC NOT USED TO MONITOR CRITICAL FUNCTIONS AND WRIST TVC PROVIDES PARTIAL REDUNDANCY FOR MISSION SUOPPORT. UNLIKE REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION. ALL CAPABILITY TO PERFORM ELBOW TVC FUNCTION COULD RESULT IN LOSS OF MISSION.							

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:		COMTRK-8013C BASELINE						
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8013 TV CAMERA RMS							
LEAD ANALYST:	W.C. LONG							
ASSESSMENT:								
CRITICAL		ANCY SCREENS	CIL ITEM					
FLIGH HDW/FU	Maria Company	в с	111571					
NASA [ 2 /2 IOA [ 3 /2R	] [ p ]	[ ] [ ] [ P ]	[ X ] *					
COMPARE [ N /N	ן וא ן	[ N ] [ N ]	[ N ]					
RECOMMENDATIONS:	(If differen	t from NASA)						
[ /	] [ ]	[ ] [ ]	[ ] (ADD/DELETE)					
* CIL RETENTION	RATIONALE: (If	ADE	QUATE [ X ] QUATE [ ]					
REMARKS:	UT COULD RESULT	IN REDUCED MIS	SION EFFECTIVENESS					
ELBOW TVC NOT US	ED TO MONITOR C	RITICAL FUNCTIO	NS AND WRIST TVC					

PROVIDES PARTIAL REDUNDANCY FOR MIS REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION. ALL CAPABILITY TO PERFORM ELBOW TVC FUNCTION COULD RESULT IN LOSS OF MISSION.

ASSESSMENT DATE ASSESSMENT ID: NASA FMEA #:	COMTRK-801	3D		BASELINE NEW	[ x ]
SUBSYSTEM: MDAC ID: ITEM:	COMM AND T 8013 TV CAMERA		,		
LEAD ANALYST:	W.C. LONG				
ASSESSMENT:	CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM HDW/FUNC A B C				
		DUNDANCY	SCREENS		
		В	С	-	1111
NASA [ 2 /2 IOA [ 3 /2	CRITICALITY REDUNDANCY SCREENS CIL ITEM HDW/FUNC A B C  VASA [ 2 /2 ] [ ] [ ] [ ] [ X ] *  IOA [ 3 /2R ] [ P ] [ P ] [ P ] [ N ]  PARE [ N /N ] [ N ] [ N ] [ N ] [ N ]				
COMPARE [ N /N	] [ N	] [ N	] [ N	]	[ N ]
RECOMMENDATIONS	: (If diff	erent fro	om NASA)		
[ /	] [	] [	] [		[ ] DD/DELETE)
* CIL RETENTION	RATIONALE:	(If appli	Al	DEQUATE DEQUATE	_
REMARKS: LOSS OF TVC OUT ELBOW TVC NOT U PROVIDES PARTIA REDUNDANCY EXIS VISUAL INSPECTS COULD RESULT IN	SED TO MONIT L REDUNDANCY TS VIA CREW ON. ALL CAF	OR CRITIC FOR MISS WINDOW VI	CAL FUNCT: SION SUOP! EWING, EV	IONS AND PORT. UN VA AND CO	WRIST TVC VLIKE DAS FOR CREW

ASSESSME ASSESSME NASA FME	NT	I	D:	COM	5/8: TRK	-80	13E						ASA DA BASELI		[		]	
SUBSYSTE MDAC ID:	M:			801				CK S EL	вої	W								
LEAD ANA	LY	ST	:	w.c	. L	ONG	;											
ASSESSME	NT	:																
	CR:		ICAL			F	EDU	NDAN	CY	SCI	REENS	3				[L		
	]		LIGH' W/FU			A			В			С			17	rem	L	
NASA IOA	[	2	/2 /2R	]	•	[ [ F	]	]	P	]	[	P	]		[ [	x	]	*
COMPARE	[	N	/N	]		[ N	]	Ċ	N	]	ſ	N	]		[	N	]	
RECOMMEN	DA'	TI:	ons:	(	If	dif	fer	ent	fr	om 1	NASA	)						
	[		/	]		[	]	[		]	(		]	(Al	] /dc	/DF	] LLI	ETE)
* CIL RE	TE:	NT:	ION :	RATI	ONA:	LE:	(I	f ap	pl.	icak	•		DEQUAT		[	x	]	
REMARKS: LOSS OF																		

PROVIDES PARTIAL REDUNDANCY FOR MISSION SUOPPORT. UNLIKE REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION. ALL CAPABILITY TO PERFORM ELBOW TVC FUNCTION COULD RESULT IN LOSS OF MISSION.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:			
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRAC 8013 TV CAMERA RMS		
LEAD ANALYST:	W.C. LONG		
ASSESSMENT:			
CRITICAL: FLIGH		IDANCY SCREENS	CIL ITEM
HDW/FU		В С	
NASA [ 2 /2 IOA [ 3 /2R	] [ ] ]	[ ] [ ] [ P ] [ P ]	[ X ] *
COMPARE [ N /N	] [ N ]	[и] [и]	[ N ]
RECOMMENDATIONS:	(If differe	ent from NASA)	
. [ /	] [ ]		[ ] ADD/DELETE)
* CIL RETENTION	RATIONALE: (If	f applicable) ADEQUATE INADEQUATE	
ELBOW TVC NOT US PROVIDES PARTIAL REDUNDANCY EXIST	ED TO MONITOR REDUNDANCY FO S VIA CREW WIN	LT IN REDUCED MISSION CRITICAL FUNCTIONS AND	EFFECTIVENESS. D WRIST TVC UNLIKE COAS FOR CREW

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-	8013G		NASA DATA BASELINE NEW						
SUBSYSTEM: MDAC ID: ITEM:	8013	D TRACK RA RMS EL	вош							
LEAD ANALYST:	W.C. LOI	NG								
ASSESSMENT:										
		REDUNDAN	CY SCREEN	S	CIL ITEM					
	FLIGHT DW/FUNC A B C									
NASA [ 2 /2 IOA [ 3 /2R	] [	P ] [	p ] [	P ]	[ X ] * [ ]					
COMPARE [ N /N	] [	и ] [	N ] [	N ]	[ N ]					
RECOMMENDATIONS:	(If d	ifferent	from NASA	)						
,[ /	í	] [	1 [	] (AI	[ ] DD/DELETE)					
* CIL RETENTION	RATIONALI	E: (If ap	•	ADEQUATE	[ x ]					
REMARKS:			1	NADEQUATE	l J					
LOSS OF TVC OUTO	ED TO MOI	NITOR CRI	TICAL FUN	CTIONS AND	WRIST TVC					
PROVIDES PARTIAL REDUNDANCY EXIST										
TIPOTITION DISTOR										

VISUAL INSPECTION. ALL CAPABILITY TO PERFORM ELBOW TVC FUNCTION

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8	3013H	-	NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	8013	TRACK	sow		
LEAD ANALYST:	W.C. LON	1G			
ASSESSMENT:					
CRITICAL FLIGH		REDUNDANC	Y SCREENS		CIL
HDW/FU		A	В	С	
NASA [ 2 /2 IOA [ 3 /2R	] [	p ] [	P ] [	] P ]	[ X ] *
COMPARE [ N /N	] [	иј [	и ] [	и ]	[ N ]
RECOMMENDATIONS:	(If d	ifferent f	from NASA)		
[ /	] [	] [	. ] [	] (Al	[ ] DD/DELETE)
* CIL RETENTION	RATIONAL	E: (If app		ADEQUATE ADEQUATE	
REMARKS: LOSS OF TVC OUTCELBOW TVC NOT US PROVIDES PARTIAL REDUNDANCY EXIST VISUAL INSPECTION	ED TO MOI REDUNDAI S VIA CR	NITOR CRIT NCY FOR MI EW WINDOW	TICAL FUNC ISSION SUO VIEWING,	TIONS AND PPORT. U EVA AND C	WRIST TVC NLIKE OAS FOR CREW

ASSE	SSME SSME FME	ΝT	I	D:	C	OMTRI	88 K-:	80:	131	-						DA' SELII N		[		]		1. 8 1.2 1
	ID:				80	013				ACK IS ELI					. i, + i -							F
LEAD	ANA	LY	ST	:	W.	.c. 1	LO	NG														÷
ASSE	SSME	NT	:																			
		CR.				Z		RI	EDU	INDAN	CY	sc	REEN	S					L			
		1		LIGH' W/FU				A			В			С				LI	rem	l		
N	ASA IOA	[	2	/1R /2R	]		[	P P	]	[	P P	]	[	P P	]			]	X	]	*	
COMP	ARE	[	N	/N	]		[		]			]	[		]			[	N	]		
RECO	MMEN	DA!	ri	ons:		(If	đ:	ĹĒ	fer	ent i	fro	mc	nasa)	) -								
		[		/	]		[		]	[		]	[		]		(AE	[ D/	'DE	] LE	TE	)
		TEI	NT:	ION 1	RAT	NOI	ALI	Ξ:	(I	f app	<b>)</b> 1:	ica	•			UATI TAU		[	x	]		
REMA			~ -	o veno i	700		_	-		T - T						TAN	-	. — —				700
										LT IN												
										OR MI											1 4 (	•
										NDOW											CI	REW
										ILITY												
										ON.			ANIC	\L	IN	TERE	ER	EN	CE	W	AS	COM
CONS	IDER.	ED	Α	FAC	rof	R DUF	(IS	١G	RM	S STO	W.	•										

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8013J 4.2.5	NASA DATA: BASELINE [ ] NEW [ X ]							
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8013 TV CAMERA RMS I								
LEAD ANALYST:	W.C. LONG								
ASSESSMENT:									
CRITICAL: FLIGHT HDW/FUI	r	ANCY SCREEN	s C	CIL ITEM					
NASA [ 2 /1R IOA [ 3 /2R	] [ P ]	[ P ] [ [ P ] [	P ] P ]	[ X ] *					
COMPARE [ N /N	] [ ]	נ ז נ	1	[ N ]					
RECOMMENDATIONS:	(If different	t from NASA	)						
[ /	] [ ]	[ ] [	] (AI	[ ] DD/DELETE)					
* CIL RETENTION	RATIONALE: (If a		ADEQUATE NADEQUATE						
REMARKS: LOSS OF TVC OUTOUELBOW TVC NOT USING PROVIDES PARTIAL REDUNDANCY EXISTS VISUAL INSPECTION COULD RESULT IN ECONSIDERED A FACTOR	ED TO MONITOR CI REDUNDANCY FOR S VIA CREW WINDO N. ALL CAPABILI LOSS OF MISSION	RITICAL FUN- MISSION SU- OW VIEWING, ITY TO PERF MECHANIC	CTIONS AND OPPORT. UN EVA AND CO ORM ELBOW T	WRIST TVC NLIKE DAS FOR CREW TVC FUNCTION					

ASSESSMENT I ASSESSMENT I NASA FMEA #:	D:	COMTR	TRK-8013K BASELI									[				
SUBSYSTEM: MDAC ID: ITEM:		COMM 2 8013 TV CA				вот	1									
LEAD ANALYST	<b>:</b>	W.C.	LON	G												
ASSESSMENT:																
I	LIGH	ITY T NC		REDU A	NDAN	CY B	SCRE	EENS	c				[L			
NASA [ 2 IOA [ 3	2 /1R 3 /2R	]	[	P ] P ]	[	P P	]	]	P P	]		[	X	]	*	
COMPARE [ 1	и / и	]	[	j	[		]	[		]		[	N	]		
RECOMMENDAT	cons:	(If	di	ffer	ent	fr	om NA	ASA)								
[	/	]	[	]	[		]	[		]	(AI			] ELI	ETE)	
* CIL RETENT	rion	RATION	ALE	: (I	f ap	pl:	icab]			EQUA EQUA			x			
REMARKS: LOSS OF TVC ELBOW TVC NO PROVIDES PAI REDUNDANCY I VISUAL INSPI COULD RESULT CONSIDERED	OT US RTIAL EXIST ECTIO I IN	ED TO REDUN S VIA N. AL LOSS O	MON DAN CRE L C F M	ITOR CY F W WI APAB ISSI	CRI OR M NDOW ILIT ON.	TIC IS: V: Y: M	CAL I SION LEWIN TO PI ECHAN	FUNC SUC NG, ERFC	OPI EV ORM	ONS PORT. 'A AN I ELB	AND UN D CO OW T	EW LIV SAC OVI	RIS IKI B	ST E FOI FUI	TVC R CF NCTI	E REW ION

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:		NASA DATA: BASELINE NEW	
	COMM AND TRACK 8013 TV CAMERA RMS F	ELBOW	
LEAD ANALYST:	W.C. LONG		
ASSESSMENT:			
CRITICAL FLIGH		ANCY SCREENS	CIL ITEM
HDW/FU		ВС	11111
NASA [ 3 /1R IOA [ 3 /2R	] [ P ] ] [ P ]	[ P ] [ P ] [ P ] [ P ]	[ ] <b>*</b>
COMPARE [ /N	] [ ]	[ ] [ ]	[ ]
RECOMMENDATIONS:	(If different	t from NASA)	
[ /	1 []	[ ] [ ] (AI	[ ] DD/DELETE)
* CIL RETENTION	RATIONALE: (If a	applicable) ADEQUATE INADEQUATE	[ X ]
REMARKS: MECHANICAL INTER RMS STOW. PTU S	FERENCE WAS NOT	DETERMINED TO BE FACT TO MOVE TVC INTO STO	TOR DURING DW POSITION.

ASSESSME ASSESSME NASA FME		13M				ASA DATA BASELINE NEW					
SUBSYSTE MDAC ID: ITEM:	M:		COMM A 8013 TV CAN				W				
LEAD ANA	LYST	:	W.C. 1	LONG							
ASSESSME	NT:										
		ICAL:		R	EDUND	ANCY	SCRE	EENS		CIL	
	_	LIGH W/FU	_	A		В		C		1161	1
NASA IOA	[ 3 [ 3	/1R /2R	]	[ P	]	[ P	]	[ P	]	[ [	] <b>*</b> ]
COMPARE	[	/N	1	[	]	C	]	[	]	[	]
RECOMMEN	DATI	ons:	(If	dif	feren	t fr	om N?	ASA)			
	[	/	1	[	]	[	]	[	] (A	[ DD/DI	] ELETE)
* CIL RE	TENT	ION 1	RATION	ALE:	(If	appl	icab]	A	DEQUATE DEQUATE	[ X	]
REMARKS: MECHANIC									O BE FAC		

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:			TA: NE [ ] EW [ X ]
	COMM AND TRACK 8013 TV CAMERA RMS		
LEAD ANALYST:	W.C. LONG		
ASSESSMENT:			
CRITICAL FLIGH		ANCY SCREENS	CIL ITEM
HDW/FU	INC A	ВС	
NASA [ 3 /1R IOA [ 3 /2R	[ P ] [ P ]	[ P ] [ P ] [ P ] [ P ]	[ ] *
COMPARE [ /N	] [ ]	[ ] [ ]	[ ]
RECOMMENDATIONS:	(If differen	t from NASA)	
[ /	1 [ 1,	[ ] [ ]	[ ] (ADD/DELETE)
* CIL RETENTION	RATIONALE: (If	applicable) ADEQUAT INADEQUAT	
REMARKS: MECHANICAL INTER RMS STOW. PTU S	RFERENCE WAS NOT	DETERMINED TO BE INTO	ACTOR DURING STOW POSITION.

ASSESSMI ASSESSMI NASA FMI	ENT I	D:	3/05/ COMTR 4.1.3	K-8	0130		NASA DATA: BASELINE [ ] NEW [ X ]								
SUBSYSTEMDAC ID:			COMM 8013 TV CA			CK S ELBO	W								
LEAD ANA	LYST	:	W.C.	LONG	3										
ASSESSME	ENT:														
	F	ICALI LIGHT W/FUN		1		ndancy B	SCRI	EENS	s C	1 :	CIL				
		•				_	_	_			_				
NASA IOA	[ 3	/3 /2R	]	[ ]	P ]	[ [ P	]	[	P ]		[	] *			
COMPARE	[	/N	]	[ ]	4 ]	[ и	]	[	и ј		[	]			
RECOMMEN	DATI(	ons:	(If	di	ffere	ent fro	om N2	ASA)							
	C	/	1 .	[	]	[	]	[	.]	(A	[ DD/D1	] ELETE)			
* CIL RE	TENT:	ION F	RATION	ALE	: (I1	f appl:	icab]	le)							
					•			·		UATE UATE		]			
REMARKS: LOSS OF	OUTP			ALL	TVC	FUNCT	cons.	. c	NLY	THE W	ORST	CASE			

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:		COMTRK-8013P BASELINE								
	8013	OMM AND TRACK 013 V CAMERA RMS ELBOW								
LEAD ANALYST:	W.C. LOI	NG								
ASSESSMENT:										
FLIGH	T		NCY SCREI		CIL ITEM					
HDW/FU	NC	A	В	С						
NASA [ 3 /3 IOA [ 3 /2R	] [	P ]	[ ] [ P ]	[ ] [ P ]	[ ] *					
COMPARE [ /N	] [	и ј	[ N ]	[ N ]	[ ]					
RECOMMENDATIONS:	(If d	ifferent	from NA	SA)						
[ /	] [	]	[ ]	[ ]	[ ] DD/DELETE)					
* CIL RETENTION	RATIONAL	E: (If a	applicable	e) ADEQUATE INADEQUATE						
REMARKS: LOSS OF OUTPUT C FUNCTION WAS ANA		L TVC FU	JNCTIONS.	ONLY THE W	ORST CASE					

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8013Q		BASELINE [ ] NEW [ X ]				
	COMM AND TRACE 8013 TV CAMERA RMS						
LEAD ANALYST:	W.C. LONG						
ASSESSMENT:							
CRITICALI FLIGHT HDW/FUN	r	DANCY SCREI	ens C	CIL ITEM			
NASA [ 3 /3 IOA [ 3 /2R	] [ p ]	[ ] [ P ]	[ ] [ P ]	[ ] *			
COMPARE [ /N	] [ N ]	[ N ]	[ N ]	[ ]			
RECOMMENDATIONS:	(If differer	nt from NAS	5 <b>A</b> )	·			
[ /	] [ ]	į j	[ ] (A	[ ] DD/DELETE)			
* CIL RETENTION I	RATIONALE: (If	applicable	e) ADEQUATE INADEQUATE				
REMARKS: LOSS OF OUTPUT CO FUNCTION WAS ANAI		FUNCTIONS.	ONLY THE W	ORST CASE			

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:		)14	NASA DATA: BASELINE ( NEW ( X					
MDAC ID:	COMM AND 8014 PAN AND T		IT (TVC A	A POSITION)				
LEAD ANALYST:	W.C. LONG	}						
ASSESSMENT:								
CRITICAL FLIGH		REDUNDAI	NCY SCREE	ens	CIL ITEM			
	NC. A	<b>Y</b>	В	С	222.			
NASA [ 2 /2 IOA [ 2 /1R	] [ F	· ]	[ ] [ P ]	[ ] [ P ]	[ X ] * [ X ]			
COMPARE [ /N	] [ N	<b>1</b> ]	[и]	[ N ]	[ ]			
RECOMMENDATIONS:	(If dif	fferent	from NAS	SA)				
[ 2 /1R	]· [ F	? ]	[ P ]	[ P ]	[ ] ADD/DELETE)			
* CIL RETENTION	RATIONALE:	: (If a	pplicable	a)  ADEQUATE  INADEQUATE	[ X ]			
REMARKS:	COULD DES	מד יתוווב	IASS OF					

PHYSICAL BINDING COULD RESULT IN LOSS OF CCTV AND MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:		NASA DATA: BASELINE [ ] NEW [ X ]					
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8014 PAN AND TILT UNIT	r (TVC A POSITION)					
LEAD ANALYST:	W.C. LONG						
ASSESSMENT:			··· ··· ··· ···				
CRITICAL FLIGH		CY SCREENS	CIL ITEM				
HDW/FU	_	B C	TIEM				
NASA [ 2 /2 IOA [ 2 /1R	] [ ] [ ] [ P ]	P ] [ P ]	[ X ] *				
COMPARE [ /N	] [ N ] [	иј [иј	[ ]				
RECOMMENDATIONS:	(If different	from NASA)					
[ 2 /1R	] [P] [	P ] [ P ] (A	[ ] DD/DELETE)				
* CIL RETENTION	RATIONALE: (If app	plicable) ADEQUATE INADEQUATE	[ X ]				
OF ALL CAPABILIT	Y TO PERFORM CCTV	LOSS OF CCTV AND MISTURE FUNCTION COULD PRESES RESULTING IN POSS	SSION. LOSS VENT RMS STOW				

VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.

ASSESSME ASSESSME NASA FME	TNE	I	D:	CC	COMTRK-8014B								NASA DATA: BASELINE [ ] NEW [ X ]								
SUBSYSTE MDAC ID:				80	OMM AND TRACK 014 AN AND TILT UNIT (TVC A POSITION)								N)								
LEAD ANA	LY	ST	:	W.	c. I	.01	1G														
ASSESSME	ENT	:																			
		F	ICAL	r	ľ			EDUN	IDA	NC		SCR	EEN					CL CEM	<b>T</b>		
	]	HD	W/FUI	NC			A				В			С							
NASA IOA	[	2 2	/2 /1R	]		[ [	P	]		]	P	]	[	P	]		[	X	]	*	
COMPARE	[		/N	]		[	N	]		[	N	]	[	N	]		[		]		
RECOMMEN	NDA'	ΤI	ons:		(If	d:	if1	ere	ent	f	ro	om N	ASA	)							
	[	2	/1R	]		[	P.	]		[	P	]	[	P	]	(Al		/DI	] ELE	ETE)	
* CIL RI	ETE:	NT	ION 1	RA?	CIONA	L	€:	(If	f a	pp	<b>)</b> 1i	icab			DEQUA			x	]		
													I	NA	DEQUA	TE	[		]		

REMARKS:

PHYSICAL BINDING COULD RESULT IN LOSS OF CCTV AND MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.

ASSESSMENT DATE: 3/05/88

NASA DATA:

ASSESSMENT ID: NASA FMEA #:			BASELINE NEW	[ X ]
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8014 PAN AND TILT UN		POSITION)	
LEAD ANALYST:	W.C. LONG			
ASSESSMENT:				
CRITICAL: FLIGH	ITY REDUNDA	ANCY SCREE		CIL ITEM
	NC A	В	C	
NASA [ 2 /2 IOA [ 2 /1R	] [ ] ] ]	[ ] [ P ]	[ ] [ P ]	[ X ] *
COMPARE [ /N	] [ N ]	[ N ]	[и]	[ ]
RECOMMENDATIONS:	(If different	t from NAS	A)	
[ 2 /1R	]. [ P ]	[ P ]	[ P ] (AI	[ DD/DELETE)
* CIL RETENTION	RATIONALE: (If a	applicable;	) ADEQUATE INADEQUATE	[ X ]
REMARKS: PHYSICAL BINDING OF ALL CAPABILIT AND MONITORING P VEHICLE AND CREW WINDOW VIEWING, JETTISON TO ALLO	Y TO PERFORM CCT /L BAY DOOR LATO . UNLIKE CCTV I EVA AND COAS FOR	N LOSS OF ( IV FUNCTION CHES RESUL' REDUNDANCY R CREW VIS	CCTV AND MIS N COULD PREVING IN POSS EXISTS VIA UAL INSPECTI	SSION. LOSS VENT RMS STOW SIBLE LOSS OF CREW ION AND RMS

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:		NASA DATA: D BASELINE [ ] NEW [ X ]						
MDAC ID:	COMM AND TRAC 8014 PAN AND TILT	CK UNIT (TVC A POSITI	on)					
LEAD ANALYST:	W.C. LONG							
ASSESSMENT:								
CRITICAL FLIGH	T	IDANCY SCREENS	CIL ITEM					
HDW/FU	NC A	ВС						
NASA [ 2 /2 IOA [ 2 /1R	[ P ]	[ ] [ ] [ P ] [ P ]	[ X ] * [ X ]					
COMPARE [ /N	] [ N ]	[и] [и]	[ ]					
RECOMMENDATIONS:	(If differe	ent from NASA)						
[ 2 /1R	[P]	[P] [P]	[ . ] (ADD/DELETE)					
* CIL RETENTION	RATIONALE: (I	f applicable) ADEQU INADEQU						
REMARKS: PHYSICAL BINDING	COULD RESULT	IN LOSS OF CCTV AN						

PHYSICAL BINDING COULD RESULT IN LOSS OF CCTV AND MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-	[ x ] [ ]							
MDAC ID:	8014	OMM AND TRACK 014 AN AND TILT UNIT (TVC A POSITION)							
LEAD ANALYST:	W.C. LO	NG							
ASSESSMENT:					•				
CRITICAL FLIGH		REDUNDA	NCY SCREEN	s	CIL ITEM				
HDW/FU		A	В	C	1154				
NASA [ 2 /2 IOA [ 2 /1R	] [	P ]	[ ] [ [ P ] [	P ]	[ X ] * [ X ]				
COMPARE [ /N	] [	и ]	[и]	n j	[ ]				
RECOMMENDATIONS:	(If d	ifferent	from NASA	.)					
[ 2 /1R	] [	<b>P</b> ]	[P] [	P ]. (A	[ DD/DELETE)				
* CIL RETENTION	RATIONAL	E: (If a	pplicable)						
			I	ADEQUATE NADEQUATE					
REMARKS: PHYSICAL BINDING COULD RESULT IN LOSS OF CCTV AND MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOTAND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF CCTV REDUNDANCY EXISTS VIA CREW									

WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.

ASSESSME ASSESSME NASA FME	NT ]	ID:	3/05/ COMTR 2.4.2	K-8(	)14	F						ASA DATA BASELINE NEW	[	x	]		
SUBSYSTE MDAC ID: ITEM:	M:		8014	OMM AND TRACK 014 AN AND TILT UNIT (TVC A POSITION)										- ,		~.	
LEAD ANA	LYS	r:	W.C.	LONG	3												
ASSESSME	NT:																
		TICAL: FLIGH		. 1	REL	UND	ANC	Y	SCRE	ENS				IL FEN	4		
	HI	DW/FU	NC	1	A			В			С						
NASA IOA	[ ;	2 /2 2 /1R	]	[ ]	P ]		[	P	]	[	P	]	[	X	]	*	
COMPARE	[	/N	]	[ ]	N ]		[	N	]	[	N	] .	[		]		
RECOMMEN	DAT:	ions:	(If	di	ffe	eren	t f	fro	om NA	SA	)						
	[ :	2 /1R	3	[	P ]		[	P	]	[	P	]	DD,	/D1	ELI	ETE	2)
* CIL RE	TEN'	TION	RATION	ALE	: (	(If	app	<b>,1</b> :	icabl			DEQUATE DEQUATE	[	X	]		
DEMARKS .										1.	14.127	PPGOVIE	L		J		

PHYSICAL BINDING COULD RESULT IN LOSS OF CCTV AND MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.

	ASSESSME ASSESSME NASA FME	NT NT A #	DZ II	ATE:	3/0 COM 2.4	5/88 TRK- .3	80	140	;							DA' ELI N		[				
	SUBSYSTEM MDAC ID:				801	IM AN .4 I AND				T	(T	VC A	. 1	208	SIT	ION	)					
	LEAD ANA	LYS	T:	:	W.C	. LO	NG															
	ASSESSME	NT:	;																			
			FI	TCH	יו														[L CEM	ſ		
		H	IDV	I/FUI	NC.		A			В				С								
	NASA IOA	[	2	/2 /1R	]	[ [	P	]	[ [	P	]		[	P	]			[	X X	]	*	
	COMPARE	[		/N	]	Į	N	]	[	N	]		[	N	]			[		]		
RECOMMEN	NDATIONS:				(	If d	if:	fer	ent	fr	om	NAS	A	)								
		(	2	/1R	1.	[	P	]	. [	P	]		C	P	]		(AÏ			] ELE	TE)	
	* CIL RE	ren	T	ON I	RATI	ONAL	E:	(I	f ap	pl	ica	able	:) II	ÄÍ	EQI EQI	JATI JATI	Ē E	[	x	]		
	REMARKS: PHYSICAL OF ALL CAND MONITY VEHICLE AWINDOW VEHICLE AWINDOW AWINDOW VEHICLE AWINDOW A	APA FOR AND IEW	BI RIN O C	LITY IG PA CREWA	Y TO /L B . U EVA	PER AY D NLIK AND	FOI 001 E ( CO2	RM R I CCI AS	CCTV ATCH V RE FOR	FI ES DU CR	UNC RI ND EW	OF CTIO ESUL ANCY VIS	CON TI	CTV CC ENG EXI	V AI OULI STS	ND I D PI N PC S V:	MIS REV OSS IA CTI	EN EN CF	ON IT BLE REW I A	RM C I	IS ST JOSS RMS	OT OF

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8015 2.1.7	NASA D. BASEL	ATA: INE [ ] NEW [ X ]						
SUBSYSTEM: MDAC ID:	COMM AND TRACE	COMM AND TRACK							
LEAD ANALYST:	W.C. LONG								
ASSESSMENT:									
FLIGH		DANCY SCREENS B C	CIL ITEM						
·		[ ] [ ] [ P ]	[ X ] * [ X ]						
COMPARE [ /N	] [ N ]	[ N ] [ N ]	[ ]						
RECOMMENDATIONS:	(If differe	nt from NASA)							
[ 2 /1R	t] . [P]	[P] [P]	[ ] (ADD/DELETE)						
* CIL RETENTION	RATIONALE: (If	applicable) ADEQUA INADEQUA	TE [ X ]						
LOSS OF ALL CAPA STOW AND MONITOR LOSS OF VEHICLE EXISTS VIA CREW	ABILITY TO PERFORM OF THE PLANT OF THE PLANT OF THE PERFORM OF THE	SULT IN LOSS OF CCTORM CCTV FUNCTION COOR LATCHES RESULTING IKE CCTV REDUNDANCY, EVA AND COAS FOR ALLOW P/L BAY DOOF	G IN POSSIBLE CREW VISUAL						

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8015A 2.2.7	NASA DATA: BASELINE [ ] NEW [ X ]						
SUBSYSTEM: MDAC ID: ITEM:		K THE	POSITION)					
LEAD ANALYST:	W.C. LONG							
ASSESSMENT:								
CRITICALITY REDUNDANCY SCREENS CIL								
FLIGH HDW/FU	NC A	В	С	ITEM				
NASA [ 2 /2 IOA [ 2 /1R	] [ ] ] ]	[ ] [ P ]	[ ] [ P ]	[ X ] * [ X ] ~				
COMPARE [ /N	] [N]	[ N ]	[и]	[ ]				
RECOMMENDATIONS:	(If differe	nt from NAS	A)					
[ 2 /1R	] [P]	[ P ]		[ DD/DELETE)				
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]								
REMARKS: FAILURE TO START/STOP COULD RESULT IN LOSS OF CCTV AND MISSION.								
LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE								
LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE WORST								

CASE CONDITION.

	ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8 2.3.7	3015B		NASA DATA: BASELINE NEW						
	SUBSYSTEM: MDAC ID: ITEM:	COMM AND 8015 PAN AND	COMM AND TRACK 015 PAN AND TILT UNIT (TVC A POSITION)								
LEAD ANALYST:		W.C. LON	V.C. LONG								
	ASSESSMENT:										
	CRITICAL FLIGH		REDUNDAN	ICY SCREEN	ıs	CIL ITEM					
		NC	A	В	С	- +					
	NASA [ 2 /2 IOA [ 2 /1R	] [	P ] [	[ ] [ [ P ] [	P ]	[ X ] *					
	COMPARE [ /N	] [	и ] [	[ N ]	[ א ]	[ ]					
	RECOMMENDATIONS:	(If d	ifferent	from NASA	۸)						
	[ 2 /1R	] [	P ]	[ P ] (	[ P ] (A)	[ DD/DELETE)					
	* CIL RETENTION	RATIONALI	E: (If ap		ADEQUATE						
	REMARKS: FAILURE TO START LOSS OF ALL CAPA STOW AND MONITOR LOSS OF VEHICLE EXISTS VIA CREW INSPECTION AND R CASE CONDITION.	BILITY TO ING P/L I AND CREW WINDOW VI	D PERFORM BAY DOOR . UNLIKI IEWING, I	M CCTV FUN LATCHES N E CCTV REN EVA AND CO	NCTION COUL RESULTING I DUNDANCY DAS FOR CRE	D PREVENT RMS N POSSIBLE W VISUAL					
	CHOR CONDITION.										

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-80 2.4.1.1	015C	NASA DATA: BASELINE NEW					
SUBSYSTEM: MDAC ID:	COMM AND 8015	TILT UNIT (TVC A POSITION)						
LEAD ANALYST:	W.C. LONG	G						
ASSESSMENT:								
CRITICAL FLIGH		REDUNDANCY SCREENS		CIL ITEM				
	NC A	А. В	<b>C</b> - 22 - 2	T T 1281				
NASA [ 2 /2 IOA [ 2 /1R	] [ [	P ] [ P ] [	p ]	[ X ] *				
COMPARE [ /N	] [ ]	и) [и] [и	N ]	[ ]				
RECOMMENDATIONS:	(If dif	fferent from NASA)						
[ 2 /1R	] [ [	P] [P] [	P ] (AI	[ ] DD/DELETE)				
* CIL RETENTION	RATIONALE:	: (If applicable) IN	ADEQUATE ADEQUATE	[ X ]				
LOSS OF ALL CAPA STOW AND MONITOR LOSS OF VEHICLE EXISTS VIA CREW	BILITY TO ING P/L BA AND CREW. WINDOW VIE	LD RESULT IN LOSS PERFORM CCTV FUNC AY DOOR LATCHES RE UNLIKE CCTV REDU EWING, EVA AND COA ON TO ALLOW P/L BA	OF CCTV AN TION COULT SULTING IN INDANCY S FOR CREV	ID MISSION. D PREVENT RMS N POSSIBLE N VISUAL				

CASE CONDITION.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8015D 2.4.1.2	NASA DATA: BASELINE [ ] NEW [ X ]								
SUBSYSTEM: MDAC ID: ITEM:	8015	COMM AND TRACK 8015 PAN AND TILT UNIT (TVC A POSITION)								
LEAD ANALYST:	W.C. LONG									
ASSESSMENT:										
CRITICAL FLIGH	ITY REDUNDA	ANCY SCREENS	CIL ITEM							
	NC A	в с								
NASA [ 2 /2 IOA [ 2 /1R	[ ] [ P ]	[ ] [ ] [ P ] [ P ]	[ X ] * [ X ]							
COMPARE [ /N	] [ N ]	[и] [и]	[ ]							
RECOMMENDATIONS:	(If different	t from NASA)								
[ 2 /1R	[P]	[P] [P]	[ ] (ADD/DELETE)							
* CIL RETENTION	RATIONALE: (If a	applicable) ADEQUATI INADEQUATI	E [ X ]							
LOSS OF ALL CAPA STOW AND MONITOR LOSS OF VEHICLE EXISTS VIA CREW	ABILITY TO PERFORMING P/L BAY DOOR AND CREW. UNLIFUE WINDOW VIEWING,	ULT IN LOSS OF CCTV RM CCTV FUNCTION COU R LATCHES RESULTING KE CCTV REDUNDANCY EVA AND COAS FOR CH ALLOW P/L BAY DOOR O	JLD PREVENT RMS IN POSSIBLE REW VISUAL							

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:			ATA: INE [ ] NEW [ X ]							
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8015 PAN AND TILT UN	COMM AND TRACK 8015 PAN AND TILT UNIT (TVC A POSITION)								
LEAD ANALYST:	W.C. LONG									
ASSESSMENT:			ed wew Property of							
CRITICAI FLIGH		ANCY SCREENS								
HDW/FU	INC A	B ,, C C 14, 14	. 111							
NASA [ 2 /2 IOA [ 2 /1F	[ ] [ P ]	[ P ] [ P ]	[ X ] *							
COMPARE [ /N	] [N]	[ N ] [ N ]	[ ]							
RECOMMENDATIONS:	(If different	t from NASA)								
[ 2 /1F	R] [P]	[ P ] [ P ]	[ (ADD/DELETE)							
* CIL RETENTION	RATIONALE: (If a	ADEQUA	re [ X ]							
LOSS OF ALL CAPP STOW AND MONITOR LOSS OF VEHICLE EXISTS VIA CREW	FAILURE TO START/STOP COULD RESULT IN LOSS OF CCTV AND MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST									

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:			3/05/88 COMTRK-8015F 2.4.2.2						NASA DATA: BASELINE [ NEW [ X						]						
			COMI 801! PAN	COMM AND TRACK 3015 PAN AND TILT UNIT (TVC A POSITION)																	
LEAD ANALYST:			W.C. LONG																		
ASSESSMEN	IT:																				
c							RE	EDU.	NDAN	C?	ľ	SCRE	EENS	3				CIL ITEM			
	FLIGH HDW/FU			NC NC			A			F	В			С			± ± =====				
NASA IOA	[	2 2	/2 /1R	]		[ [	P	]	]	I	?	]	[	P	]		]	X X	]	*	
COMPARE	[		/N	]		[	N	]	[	ì	1	]	[	N	]		[		]		
RECOMMENI	TAC	IC	NS:	(	If	di	Ĺf	fer	ent	fı	rc	om N2	ASA)	)							
	Į	2	/1R	3		[	P	]	[	]	Р	3	[	P	]	(AI		/DE		ETE)	
* CIL RET	ΓEN	T]	ON I	RATI	ONA	LI	Ξ:	(I	f ap	p:	li	cab:		IA IAN	DEQUA DEQUA	TE TE	[	x	]		
REMARKS: FAILURE TO STOW AND LOSS OF TO EXISTS VEINSPECTION CASE CONTINUES.	ALL MO VEH IA ON	N] (I) (C) (A)	CAPA TOR CLE REW ND R	BILI ING AND WIND	TY P/L CRE	T( W V	D ] BA] ·	PER Y D UN WIN	FORM OOR LIKE		C( A: C( A	CTV   CCHES CTV   AND	OSS FUNC S RI REDI CO	OI CT: EST UNI AS	F CCT ION C ULTIN DANCY FOR	V AI OULI G II	4 V	MI PRI POS	evi evi es:	ENT IBLE AL	RMS

			3/05/88 COMTRK-8015G 2.4.3						NASA DATA: BASELINE [ ] NEW [ X ]										
MDAC ID:			80	COMM AND TRACK 3015 PAN AND TILT UNIT (TVC A POSITION)															
LEAD ANALYST:			W.	V.C. LONG															
ASSESSME	ASSESSMENT:																		
CRITICAL FLIGH										NS	S			CIL ITEM					
	1		W/FUI			A				В				С				***	
NASA IOA	[	2	/2 /1R	]	[	F	•	]	[	P	]	-	[	P	]		K ]	<b>T</b>	] <b>*</b> ]
COMPARE	[		/N	]	[	N	ľ	]	[	N	]		[	N	1		[		]
RECOMMEN	DA'	rI	ons:		(If d	if	f	eren	t	fr	om Na	AS!	A)						
	Ţ	2	/1R	]	[	F	>	]	[	P	1	1	[	P		ΆΙ	[ DD/E	ΕÌ	] LETE)
* CIL RE	CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]																		

#### **REMARKS:**

FAILURE TO START/STOP COULD RESULT IN LOSS OF CCTV AND MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.

The state of the s

ASSESSMENT DATE: 3 ASSESSMENT ID: 0 NASA FMEA #: 2	COMTRK-8015H	NASA DATA: BASELINE [ ] NEW [ X ]							
SUBSYSTEM: COMMON COMMO									
LEAD ANALYST:	N.C. LONG								
ASSESSMENT:									
CRITICALIT FLIGHT	TY REDUNDANCY SCREENS	CIL ITEM							
HDW/FUNG		C							
NASA [ 2 /2 IOA [ 2 /1R	] [ ] [ ] [ ] [ P ] [ P ] [	] [X]* P] [X]							
COMPARE [ /N	] [и] [и] [	и] []							
RECOMMENDATIONS:	(If different from NASA)								
[ 2 /1R	] [P] [P] [	P ] [ ] (ADD/DELETE)							
	ATIONALE: (If applicable)	ADEQUATE [ X ] ADEQUATE [ ]							
LOSS OF ALL CAPAB STOW AND MONITORI LOSS OF VEHICLE A EXISTS VIA CREW W	STOP COULD RESULT IN LOSS SILITY TO PERFORM CCTV FUNCTING P/L BAY DOOR LATCHES REAND CREW. UNLIKE CCTV REDUVINDOW VIEWING, EVA AND COASS JETTISON TO ALLOW P/L BA	TION COULD PREVENT RMS SULTING IN POSSIBLE NDANCY S FOR CREW VISUAL							

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8 2.4.4.1	015I		NASA DATA: BASELINE [ ] NEW [ X ]				
SUBSYSTEM: MDAC ID: ITEM:	COMM AND 8015 PAN AND			C A POSITION				
LEAD ANALYST:	W.C. LONG	3						
ASSESSMENT:								
CRITICAI FLIGH		REDUNDA	CIL ITEM					
HDW/FU	NC I	<b>A</b> -	В	C	LIM			
NASA [ 3 /3 IOA [ 2 /1R	] [	) ]	[ p ]	[ ] [ P ]	[ ] * [ x ]			
COMPARE [ N /N	] [ ]	<b>7</b> ] .	[ 14 ]	[ N ]	[ N ]			
RECOMMENDATIONS:	(If dif	ferent	from N	ASA)				
\ <u>1</u>	] [	]	[ ]	[ ]	[ ] (ADD/DELETE)			
* CIL RETENTION REMARKS:	RATIONALE:	(If a	pplicab	le) ADEQUAT INADEQUAT				
ONLY WORST CASE	CONDITION	WAS AN	ALYSED.					

	3/05/88 COMTRK-8016 2.1.7	<u> </u>	ELINE [ ] NEW [ X ]
MDAC ID:	COMM AND TRA 8016 PAN AND TILT	CK UNIT (TVC A POSIT	'ION)
LEAD ANALYST:	W.C. LONG		
ASSESSMENT:			
CRITICAL FLIGH		NDANCY SCREENS	CIL ITEM
HDW/FU	NC A	В С	
NASA [ 2 /2 IOA [ 2 /1R	] [ ] ] ]	[ ] [ ] [ P ]	[ X ] * [ X ]
COMPARE [ /N	] [ N ]	[и] [и]	[ ]
RECOMMENDATIONS:	(If differ	ent from NASA)	
[ 2 /1R	] [ P ]	[ P ] [ P ]	[ ] (ADD/DELETE)
* CIL RETENTION	RATIONALE: (I	ADEÇ	QUATE [ X ]
REMARKS:			QUATE [ ]

ERRATIC/INTERMITTANT OPERATION COULD RESULT IN LOSS OF CCTV AND MISSION. LOSS OF CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXIST VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8016A 2.2.7	NASA DAT BASELIN NE	NASA DATA: BASELINE [ ] NEW [ X ]						
SUBSYSTEM:									
LEAD ANALYST:	W.C. LONG	NG							
ASSESSMENT:									
	ITY REDUNDA	NCY SCREENS	CIL ITEM						
FLIGH HDW/FU	NC A	В С	TIEM						
NASA [ 2 /2 IOA [ 2 /1R	] [ ] ] ]	[ ] [ ] [ P ] [ P ]	[ X ] *						
COMPARE [ /N	] [ N ]	[и] [и]	[ ]						
RECOMMENDATIONS:	(If different	from NASA)							
[ 2 /1R	] [ P ]	[P] [P] (	[ ] ADD/DELETE)						
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ] INADEQUATE [ ]									
ERRATIC/INTERMITMISSION. LOSS OF PREVENT RMS STOW POSSIBLE LOSS OF VIA CREW WINDOW	INADEQUATE [ ]  REMARKS: ERRATIC/INTERMITTANT OPERATION COULD RESULT IN LOSS OF CCTV AND MISSION. LOSS OF CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXIST VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE								

	ASSESSME ASSESSME NASA FME	ENT ID:				NASA DA BASELI N	
	SUBSYSTE MDAC ID: ITEM:		COMM AN 8016 PAN AND			A POSITION	)
	LEAD ANA	ALYST:	W.C. LC	NG			
	ASSESSME	ENT:					
		FLIGH	LITY IT JNC		DANCY SCR B	EENS C	CIL ITEM
		•			_	_	
	NASA IOA	[ 2 /2 [ 2 /1F	] [	P ]	[ ] [P]	[ ] [P]	[ X ] * [ X ]
	COMPARE	[ /N	] [	[ א ]	[ N ]	[ N ]	[ ]
	RECOMMEN	DATIONS:	(If d	liffere	nt from N	ASA)	
		[ 2 /1]	? ] [	PJ	[ P ]	[ P ]	[ ] (ADD/DELETE)
			RATIONAL	LE: (If	applicab	le) ADEQUAT INADEQUAT	
RRATIC/	MISSION. PREVENT POSSIBLE VIA CREW	TANT LOSS ( RMS STOV LOSS OI WINDOW JETTISON	OF CAPABI N AND MON F VEHICLE VIEWING,	LLITY TO NITORING E AND CE , EVA AN	PERFORM P/L BAY REW. UNL D COAS F	CCTV FUNCT DOOR LATCH IKE CCTV RE	ES RESULTING IN DUNDANCY EXIST UAL INSPECTION

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8016C 2.4.1.1	NASA DATA: BASELINE [ ] NEW [ X ]							
SUBSYSTEM: MDAC ID:	COMM AND TRACK 8016 PAN AND TILT UNIT (TVC A POSITION)								
LEAD ANALYST:	W.C. LONG								
ASSESSMENT:									
CRITICAL FLIGH	ITY REDUNDANCY SCREEN	NS CIL ITEM							
	NC A B	C							
NASA [ 2 /2 IOA [ 2 /1R	] [ ] [ ]   . ] [ P ] [ P ]	[ ] [ X ] * [ P ] [ X ]							
COMPARE [ /N	] [и] [и] [	[ и] [ и]							
RECOMMENDATIONS:	(If different from NASA	A)							
[ 2 /1R	[P] [P]	[P] [] (ADD/DELETE)							
	RATIONALE: (If applicable)	ADEQUATE [ X ]							
MISSION. LOSS OF PREVENT RMS STOWN POSSIBLE LOSS OF VIA CREW WINDOW	REMARKS: ERRATIC/INTERMITTANT OPERATION COULD RESULT IN LOSS OF CCTV AND MISSION. LOSS OF CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXIST VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE								

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8016	D N	ASA DATA: BASELINE [ ] NEW [ X ]					
SUBSYSTEM: MDAC ID: ITEM:	8016	ACK T UNIT (TVC A PO	SITION)					
LEAD ANALYST:	AD ANALYST: W.C. LONG							
ASSESSMENT:								
CRITICAL FLIGH		UNDANCY SCREENS	CIL ITEM					
	NC A	ВС						
NASA [ 2 /2 IOA [ 2 /1R	] [ ] [ P ]	[ ] [ [ P ] [ P	] [ X ] *					
COMPARE [ /N	] [N]	[и] [и	1 ( )					
RECOMMENDATIONS:	(If diffe	rent from NASA)						
[ 2 /1R	] [P]	[ P ] [ P	] [ ] (ADD/DELETE)					
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]								
INADEQUATE [ ]  REMARKS: ERRATIC/INTERMITTANT OPERATION COULD RESULT IN LOSS OF CCTV AND MISSION. LOSS OF CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN								

POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXIST VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION

AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE

CONDITION.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2.4.2.1	NASA DATA: BASELINE [ ] NEW [ X ]						
SUBSYSTEM: MDAC ID:	COMM AND TRACK 8016 PAN AND TILT UNIT (TVC A F	POSITION)						
LEAD ANALYST:	W.C. LONG	The second History of the second seco						
ASSESSMENT:								
FLIGH'	ITY REDUNDANCY SCREENS T NC A B	C CIL ITEM						
NASA [ 2 /2 IOA [ 2 /1R	] [ ] [ ] [ ] [ P ] [ P ] [	P ] [ X ] *						
COMPARE [ /N	] [N] [N] [	ן ו ו						
RECOMMENDATIONS:	(If different from NASA)							
[ 2 /1R	] [P] [P].[	P ] [ ] (ADD/DELETE)						
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ] INADEQUATE [ ]								
REMARKS: ERRATIC/INTERMITTANT OPERATION COULD RESULT IN LOSS OF CCTV AND MISSION. LOSS OF CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXIST VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.								

ASSESSMEN ASSESSMEN NASA FME	I TN	D:	COMTR	K-8	01	6F						ASA DATA BASELINI NEV	E [	×	]	
SUBSYSTEM MDAC ID:	M:		COMM 8016 PAN A					r (	(TVC	CAI	POS	SITION)			•	
LEAD ANA	LYSI	1:	W.C.	LON	G											
ASSESSMENT:																
(			ITY		RE	DUND	AN	CY	SCI	REENS	3			CIL		
		LIGH W/FU	NC		A			В			С		L	. I E	М	
NASA IOA	[ 2	/2 /1R	]	[	P	]	]	P	]	ן נ	P	]	[	X	]	*
COMPARE	[	/N	]	[ ]	N	]	[	N	]	[	N	]	[		]	
RECOMMEN	DATI	ONS:	(If	di	ff	eren	t:	fro	om 1	NASA)	)					
	[ 2	/1R	]	[	P	]	[	P	]	[	P		J IOA	)/[	ELI	ETE)
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ] INADEQUATE [ ]																
REMARKS: ERRATIC/INTERMITTANT OPERATION COULD RESULT IN LOSS OF CCTV AND																

ERRATIC/INTERMITTANT OPERATION COULD RESULT IN LOSS OF CCTV AND MISSION. LOSS OF CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXIST VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8016G 2.4.3	NASA DATA BASELINE NEW	: ::::::::::::::::::::::::::::::::::::					
SUBSYSTEM:	COMM AND TRACK 8016	r (TVC A POSITION)						
LEAD ANALYST:	NALYST: W.C. LONG							
ASSESSMENT:								
	ITY REDUNDANC	CY SCREENS	CIL ITEM					
FLIGH HDW/FU	NC A	В С	TIEM					
NASA [ 2 /2 IOA [ 2 /1R	[ P ] [	P ]	[ X ] * [ X ]					
COMPARE [ /N	] [ N ] [	иј [иј	[ ]					
RECOMMENDATIONS:	(If different	from NASA)						
[ 2 /1R	[ P ] [	P ] [ P ] (A	[ ] .DD/DELETE)					
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]								
MISSION. LOSS OF PREVENT RMS STOWN POSSIBLE LOSS OF VIA CREW WINDOW	F CAPABILITY TO PI AND MONITORING PA VEHICLE AND CREW VIEWING, EVA AND O	ULD RESULT IN LOSS ERFORM CCTV FUNCTION L BAY DOOR LATCHES UNLIKE CCTV REDUCTION COAS FOR CREW VISUAL DOOR CLOSURE. WOR	OF CCTV AND ON COULD ON RESULTING IN ONDANCY EXIST OLD INSPECTION					

CONDITION.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8017 2.1.7	05/88 NASA DATA: MTRK-8017 BASELINE 1.7 NEW							
SUBSYSTEM: MDAC ID: ITEM:	8017	r (TVC B POSITION)							
LEAD ANALYST:									
ASSESSMENT:									
FLIGHT	ITY REDUNDANG F NC A	CY SCREENS  B C	CIL ITEM						
		_	r x 1 *						
IOA [ 2 /1R	] [P] [	P ] [ P ]	į x j						
COMPARE [ /N	] [N][	и] [и]	[ ]						
RECOMMENDATIONS:	(If different :	from NASA)							
[ 2 /1R	] [P] [	P ] [ P ] (A	[ ] DD/DELETE)						
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]									
REMARKS: PHYSICAL BINDING COULD RESULT IN LOSS OF CCTV AND MISSION. LOSS OF CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXIST VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.									

ASSESSMI ASSESSMI NASA FMI	ENT	II	<b>)</b> :	CC	MTRK		80:	172	A						ASA DA BASEL 1		[		]		
SUBSYSTEM: COMM AND TRACK MDAC ID: 8017 ITEM: PAN AND TILT UNIT (TVC B POSITION)																					
LEAD ANALYST: W.C. LONG																					
ASSESSMENT:																					
		FI	CAL:	C	<b>.</b>		RI	EDU	JNDAN	CY	S	CREI	ENS	3			CI IT		I		
	H	IDV	/FUI	1C			A			В	•			С							
NASA IOA	[	2	/2 /1R	]		[ [	P	]	]	P	]		[	P	]		[	X X	]	*	
COMPARE	[		/N	]		[	N	]	C	N	]		[	N	]		[		]		-
RECOMMEN	IDAT	'IC	ns:		(If	d:	Ĺf1	fer	rent	fr	om	NAS	SA)	)							
•	[	2	/1R	]		[	P	]	[	P	]		[	P	]	(AI	[ DD/			TE)	,
* CIL RE		ΤI	ON F	rat	'IONA	L	2:	(1	[f ap	pl	ic	able	-		DEQUAT		[ :	x	]		

PHYSICAL BINDING COULD RESULT IN LOSS OF CCTV AND MISSION. LOSS OF CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXIST VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.

•	3/05/88 COMTRK-8 2.3.7	8017B	٠	BASELINE NEW			
SUBSYSTEM: MDAC ID: ITEM:	COMM AND 8017 PAN AND		TVC B	POSITION)			
LEAD ANALYST:							
ASSESSMENT:							
CRITICAL		REDUNDANC	CY SCREEN	NS	CIL ITEM		
FLIGH HDW/FU		A	В	С			
NASA [ 2 /2 IOA [ 2 /1R	] [	P ] [	P ]	[ ] [P]	[ X ] *		
COMPARE [ /N	] [	и][	и ј	[и]	[ ]		
RECOMMENDATIONS:	(If d	ifferent :	from NAS	A)			
[ 2 /1R	] [	P ] [	P ]	[P] (A)	[ ] DD/DELETE)		
* CIL RETENTION	RATIONAL	E: (If ap)		) ADEQUATE INADEQUATE			
REMARKS: PHYSICAL BINDING OF CAPABILITY TO	PERFORM	CCTV FUN	CTION CO	CCTV AND MIS ULD PREVENT	RMS STOW AN		

PHYSICAL BINDING COULD RESULT IN LOSS OF CCTV AND MISSION. LOSS OF CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXIST VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8017C 2.4.1.1		NASA DATA: BASELINE NEW					
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8017 PAN AND TILT U							
LEAD ANALYST:	W.C. LONG							
ASSESSMENT:								
CRITICAL FLIGH		TY REDUNDANCY SCREENS						
	NC A	В	С	ITEM				
NASA [ 2 /2 IOA [ 2 /1R	] [ ] [ P ]	[ <sub>P</sub> ] [	p ]	[ X ] *				
COMPARE [ /N	] [N]	[ N ] [	n ]	[ ]				
RECOMMENDATIONS:	(If different	t from NASA	.)					
[ 2 /1R	] [ P ]	[ P ] [		[ ] DD/DELETE)				
* CIL RETENTION	RATIONALE: (If a		ADEQUATE					
REMARKS: PHYSICAL BINDING OF CAPABILITY TO MONITORING P/L B. VEHICLE AND CREW VIA CREW WINDOW AND RMS JETTISON CONDITION.	PERFORM CCTV FO AY DOOR LATCHES . UNLIKE CCTV I VIEWING, EVA ANI	UNCTION COU RESULTING REDUNDANCY D COAS FOR	LD PREVENT IN POSSIBLE EXIST CREW VISUAL	RMS STOW AND LOSS OF LOSS OF				

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8	3017D		NASA DATA BASELINE NEW					
SUBSYSTEM: MDAC ID: ITEM:	COMM AND 8017 PAN AND	TRACK	IT (TVC B	POSITION)					
LEAD ANALYST:	W.C. LON	1G							
ASSESSMENT:									
CRITICAL FLIGH		REDUNDAI	NCY SCREEN	IS	CIL ITEM				
	NC	A	В	С					
NASA [ 2 /2 IOA [ 2 /1R	] [	p ]	[ ] [ [ P ] [	[ ] P ]	[ X ] * [ X ]				
COMPARE [ /N	] [	и ј	[и]	[ א ]	[ ]				
RECOMMENDATIONS: (If different from NASA)									
[ 2 /1R	] [	P ]	[ P ]	[ P ] (A	[ DD/DELETE)				
* CIL RETENTION	RATIONALI	E: (If a			гхі				
र क्षेत्र कर है हैं। जन्म			]	ADEQUATE NADEQUATE	į " į				
REMARKS: PHYSICAL BINDING OF CAPABILITY TO MONITORING P/L B. VEHICLE AND CREW VIA CREW WINDOW AND RMS JETTISON CONDITION.	PERFORM AY DOOR 1 . UNLIKE VIEWING,	CCTV FUI LATCHES I E CCTV RI EVA AND	NCTION COURESULTING EDUNDANCY COAS FOR	JLD PREVENT IN POSSIBLE EXIST CREW VISUA	RMS STOW AND E LOSS OF L INSPECTION				

3/05/88 COMTRK-8 2.4.2.1	8017E	N	BASELINE	[ ]				
8017			<u>-</u> 					
LEAD ANALYST: W.C. LONG								
ASSESSMENT:								
	REDUNDANG	CY SCREENS		CIL				
	A	ВС	0.8%					
] [	P ] [	P ] [ P	]	[ X ] *	•			
] [	и ] [	и ] [и	1	[ ]				
(If d	ifferent 1	from NASA)						
] [	P ] [	P ] [ P	[AI	[ ] DD/DELET	E)			
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]								
COLL D. D.	בכווות דאו ו			-	LOSS			
OF CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND								
MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXIST								
VIEWING, TO ALLO	EVA AND O W P/L BAY	COAS FOR CR DOOR CLOSU	EW VISUA RE. WORS	L INSPEC ST CASE	TION			
	COULD R PERFORM AY DOOR UNLIK VIEWING,	COMM AND TRACK  8017 PAN AND TILT UNIT  W.C. LONG  TY REDUNDANC  A  [ ] [ ] [  ] [ P ] [  ] [  ] [ P ] [  ] [	COMTRK-8017E 2.4.2.1  COMM AND TRACK 8017 PAN AND TILT UNIT (TVC B PO W.C. LONG  ITY REDUNDANCY SCREENS INC A B C  [	COMM AND TRACK 8017 PAN AND TILT UNIT (TVC B POSITION)  W.C. LONG  ITY REDUNDANCY SCREENS PANC A B C  [	COMM AND TRACK 8017 PAN AND TILT UNIT (TVC B POSITION)  W.C. LONG  ITY REDUNDANCY SCREENS CIL ITEM NC A B C  [			

CONDITION.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8017F 2.4.2.2	NASA DATA: BASELINE NEW							
SUBSYSTEM: MDAC ID: ITEM:									
LEAD ANALYST:									
ASSESSMENT:	ASSESSMENT:								
FLIGH	ITY REDUNDANCY T NC A E		CIL ITEM						
NASA [ 2 /2 IOA [ 2 /1R	] [ ] [ F	] [ ] ? ] [ P ]	[ X ] * [ X ]						
COMPARE [ /N	] [N] [N	и] [и]	[ ]						
RECOMMENDATIONS:	(If different fr	com NASA)							
[ 2 /1R	[P] [F	P] [P] (AI	[ ] DD/DELETE)						
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ] INADEQUATE [ ]									
REMARKS: PHYSICAL BINDING COULD RESULT IN LOSS OF CCTV AND MISSION. LOSS OF CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXIST VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.									

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8017 2.4.3	G	NASA DATA BASELINE NEW					
MDAC TD:	COMM AND TR 8017 PAN AND TIL	ACK T UNIT (TVC B	POSITION)					
LEAD ANALYST:	W.C. LONG							
ASSESSMENT:								
CRITICAL	ITY RED	UNDANCY SCREE	INS	CIL ITEM				
HDW/FU	T NC A	В	<b>c</b>	11111				
NASA [ 2 /2 IOA [ 2 /1R	] [ p ]	[ ] [ P ]	[ ] [ P ]	[ X ] * [ X ]				
COMPARE [ /N	] [ N ]	[ N ]	[ א ]	[ ]				
RECOMMENDATIONS:	(If diffe	rent from NAS	SA)					
. [ 2 /1R	] [ P ]	[ P ]	[ P ] (A	[ ] DD/DELETE)				
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]								
REMARKS: PHYSICAL BINDING OF CAPABILITY TO MONITORING P/L B VEHICLE AND CREW VIA CREW WINDOW AND RMS JETTISON	PERFORM CCT AY DOOR LATCUNLIKE CC VIEWING, EVA	V FUNCTION CO HES RESULTING TV REDUNDANCY AND COAS FOR	OULD PREVENT IN POSSIBL EXIST CREW VISUA	RMS STOW AND E LOSS OF L INSPECTION				

CONDITION.

	3/05/88 COMTRK-80 2.1.7			BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	COMM AND 8018 PAN AND		IT (TVC E	POSITION)	
LEAD ANALYST:	W.C. LONG	G			
ASSESSMENT:					
CRITICAL FLIGH		REDUNDA	NCY SCREE	:NS	CIL ITEM
HDW/FU		A	В	C	
NASA [ 2 /2 IOA [ 2 /1R	] [	] P ]	[ ] [ P ]	[ p ]	[ X ] [ X ]
COMPARE [ /N	] [ ]	N ]	[ N ]	[ N ]	[ ]
RECOMMENDATIONS:	(If di	fferent	from NAS	SA)	
[ 2 /1R	] [	P ]	[ P ]	[ P ]	[ ] ADD/DELETE)
* CIL RETENTION	RATIONALE	: (If a	pplicable	ADEQUATE	
REMARKS:			- TU 10		ND MICCION

FAILURE TO START/STOP COULD RESULT IN LOSS OF CCTV AND MISSION.
LOSS OF CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS
STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE
LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXIST
VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION
AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE
CONDITION.

ASSESSME ASSESSME NASA FME	NT I	D:			18A					ASA DAT BASELIN NE				
SUBSYSTE MDAC ID: ITEM:			8018				(TVC	B 1	POS	SITION)				
LEAD ANA	LYSI	<b>:</b> :	W.C. I	ONO	;									
ASSESSME	NT:													
CRITICALITY REDUNDAN			IDANCY	SCR	EENS	3			IL:					
	_	LIGHT W/FUN	-	A	<b>\</b>	В			C		1	TE	M	
NASA IOA	[ 2	/2 /1R	]	[ [ F	)	[ [ P	]	[ [	P	]	[	X	]	*
COMPARE	[	/N	]	[ N	[ ]	[ N	]	[	N	]	(		]	
RECOMMEN	DATI	ons:	(If	dif	fere	nt fr	om N	ASA)	)					
	[ 2	/1R	]	[ <b>F</b>	) ]	[ P	]	[	P			)/D		ETE)
* CIL RE	TENT	ION F	RATIONA	LE:	(If	appl	icab			EQUATE		x	]	
REMARKS: FAILURE								oss	OF		AND	M:		

LOSS OF CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXIST VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8018B 2.3.7	NASA DA BASELI N	
MDAC ID:	COMM AND TRACK 8018 PAN AND TILT UN	NIT (TVC B POSITION	T)
LEAD ANALYST:	W.C. LONG		
ASSESSMENT:			
CRITICAL FLIGH HDW/FU	T	ANCY SCREENS B C	CIL ITEM
NASA [ 2 /2 IOA [ 2 /1R	] [ ] ] [ P ]	[ ] [ ] [ P ] [ P ]	[ X ] * [ X ]
COMPARE [ /N	] [N]	[ N ]	[ ]
RECOMMENDATIONS:	(If different	t from NASA)	
[ 2 /1R	[ P ]	[ P ] [ P ]	[ ] (ADD/DELETE)

\* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [ X ] INADEQUATE4392H[]

#### **REMARKS:**

FAILURE TO START/STOP COULD RESULT IN LOSS OF CCTV AND MISSION. LOSS OF CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXIST VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8018C 4.2.1.1		NASA DATA BASELINE NEW			
SUBSYSTEM: MDAC ID:	COMM AND TRACT 8018 PAN AND TILT	K	POSITION)			
LEAD ANALYST:	W.C. LONG					
ASSESSMENT:						
	ITY REDUN	DANCY SCREE	:NS	CIL ITEM		
FLIGHT HDW/FUN		В	С	IIEM		
NASA [ 2 /2 IOA [ 2 /1R	] [ ] ]	[ ] [ P ]	[ ] [ P ]	[ X ] * [ X ]		
COMPARE [ /N	] [ N ]	[ N ]	[ и ]	[ ]		
RECOMMENDATIONS:	(If differe	nt from NAS	SA)			
[ 2 /1R	] [ P ]	[ P ]	[ P ]	[ ] DD/DELETE)		
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]						
REMARKS: FAILURE TO START, LOSS OF CAPABILIT STOW AND MONITOR: LOSS OF VEHICLE A VIA CREW WINDOW V AND RMS JETTISON CONDITION.	IY TO PERFORM OF THE POPER OF T	CCTV FUNCTI OR LATCHES IKE CCTV RE ND COAS FOR	ON COULD PR RESULTING I DUNDANCY EX CREW VISUA	EVENT RMS N POSSIBLE IST L INSPECTION		

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8	COMTRK-8018D BASELINE [				
	COMM AND 8018 PAN AND		IT (TVC E	POSITION)		
LEAD ANALYST:	W.C. LO	W.C. LONG				
ASSESSMENT:						
CRITICAL FLIGH	T	REDUNDA A	NCY SCREE	ens C	CIL ITEM	
HDW/FU	NC	A	Ь	C		
NASA [ 2 /2 IOA [ 2 /1R	] [	P ]	[ ] [ P ]	[ ] [ P ]	[ X ] * [ X ]	
COMPARE [ /N	] [	и ј	[ N ]	[ N ]	[ ]	
RECOMMENDATIONS:	(If d	ifferent	from NAS	SA)		
[ 2 /1R	] [	P ]	[ P ]	[ P ] (A	[ ] DD/DELETE)	
* CIL RETENTION	RATIONAL	E: (If a	applicable	ADEQUATE	•	
REMARKS: FAILURE TO START LOSS OF CAPABILI	TY TO PE	RFORM CO	TV FUNCT	ION COULD PR	REVENT RMS	

STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POLICE OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXIST VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-80 4.2.2.1	NASA DATA: BASELINE [ NEW [	]			
SUBSYSTEM: MDAC ID:	COMM AND 8018		POSITION)			
LEAD ANALYST:	W.C. LONG	<b>}</b>				
ASSESSMENT:						
		REDUNDANCY SCREENS		CIL ITEM		
FLIGHT HDW/FUN	IC A	В	c	TEM		
NASA [ 2 /2 IOA [ 2 /1R	] [ P	[ P ] [ e	] [ P ] [	x ] * x ]		
COMPARE [ /N	] [ N	[и] [и]	и ] [	]		
RECOMMENDATIONS:	(If dif	ferent from NASA	)			
[ 2 /1R	] [ P	P] [P] [	P ] [(ADD	] /DELETE)		
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]						
REMARKS: FAILURE TO START, LOSS OF CAPABILIT STOW AND MONITOR LOSS OF VEHICLE A VIA CREW WINDOW V AND RMS JETTISON	TY TO PERF ING P/L BA AND CREW. /IEWING, E	ORM CCTV FUNCTION Y DOOR LATCHES RI UNLIKE CCTV REDU VA AND COAS FOR	N COULD PREV ESULTING IN INDANCY EXIS CREW VISUAL	ENT RMS POSSIBLE T INSPECTION		

CONDITION.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:		)18F		NASA DATA BASELINE NEW	
	COMM AND 8018 PAN AND T		r (TVC B	POSITION)	
LEAD ANALYST:	W.C. LONG	3			
ASSESSMENT:					
CRITICAL FLIGH		REDUNDAN	CY SCREEN	<b>1</b> S	CIL ITEM
HDW/FU	nc 1	A	В	С	
NASA [ 2 /2 IOA [ 2 /1R	] [1	] [ P] [	P ]	[ ] [ P ]	[ X ] * [ X ]
COMPARE [ /N	] [1	M ] [	ן א	[и]	[ ]
RECOMMENDATIONS:	(If di	fferent	from NAS	A)	
[ 2 /1F	. [ ]	P ] [	P ]	[ P ] (A	[ ] DD/DELETE)
* CIL RETENTION	RATIONALE	: (If ap		) ADEQUATE INADEQUATE	
REMARKS:	YSTOD COII	וווס סדכווו.	ጥ ተክ ኒርር	S OF CCTV A	ND MISSION.

FAILURE TO START/STOP COULD RESULT IN LOSS OF CCTV AND MISSION.
LOSS OF CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS
STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE
LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXIST
VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION
AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE
CONDITION.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8	COMTRK-8018G BASELINE [				
MDAC ID:	COMM AND 8018 PAN AND		IT (TVC )	B POSITION)		
LEAD ANALYST:	W.C. LONG					
ASSESSMENT:						
CRITICALITY REDUNDANCY FLIGHT				ens	CIL	
HDW/FU		A	В	С	IIDM	
NASA [ 2 /2 IOA [ 2 /1R	] [	P ]	[ ] [ P ]	[ ] [ P ]	[ X ] * [ X ]	
COMPARE [ /N	] [	n j	[и]	[и]	[ ]	
RECOMMENDATIONS:	(If d	ifferent	from NAS	SA)		
[ 2 /1R	] [	P ]	[ P ]	[ P ]	[ ] DD/DELETE)	
* CIL RETENTION	RATIONALI	E: (If a	pplicable			
				ADEQUATE INADEQUATE		
REMARKS:  FAILURE TO START/STOP COULD RESULT IN LOSS OF CCTV AND MISSION.  LOSS OF CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS  STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE  LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXIST						

VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION

AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE

CONDITION.

ASSESSMEN ASSESSMEN NASA FME	NT I	ID:	3/0 COM 2.4	TRK-80	018H					A DATA SELINI NEV		x	]	
SUBSYSTEM MDAC ID:	M:		801				' (Т	VC B I	POSI	TION)				
LEAD ANA	LYS	r:	W.C	. LONG	G									
ASSESSME	NT:													
		ricai Fligh		1	REDU	NDANC	y s	CREENS	5		CI	L EM	•	
		DW/FC		i	A		В		С					
NASA IOA	[ :	2 /2 2 /1F	]	[ :	] P ]	[	P ]	[	p ]		[	X X	] * ]	:
COMPARE	ľ	/N	]	[ ]	N ]	[	и ]	[	n ]		, [		]	
RECOMMEN	DAT:	IONS:	: (	If di	ffer	ent f	ron	NASA	)					
	[	2 /11	<b>?</b> ]		P ]	[	P ]		P ]	(.	[ ADD,	/DE	] :LET	ľE)
* CIL RE	TEN	TION	RATI	ONALE	: <u>(</u> I	f app	olic			QUATE QUATE	[	x	]	
REMARKS: FAILURE	то	STAR!	r/sTC	P COU	LD R	ESUL	r IN	LOSS	OF	CCTV	AND	MI	SS	LON.

LOSS OF CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXIST VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.

ASSESSMENT DATE:	3/05/88			NASA DAT	A:
ASSESSMENT ID: NASA FMEA #:	COMTRK-80 2.4.4.1	18I		BASELIN NE	E [ ] W [ X ]
MDAC ID:	COMM AND 8018 PAN AND T			B POSITION)	
LEAD ANALYST:	W.C. LONG				
ASSESSMENT:					
CRITICAL FLIGH	EDUND?	CIL ITEM			
HDW/FU			В	C	11571
NASA [ 3 /3 IOA [ 2 /1R	] [ ] [ P	]	[ ] [ P ]	[ ] [P]	[ x ] *
COMPARE [ N /N	] [ N	]	[ N ]	[и]	[ N ]
RECOMMENDATIONS:	(If dif	ferent	from N	ASA)	
t /	] [	]		[ ]	[ ADD/DELETE)
* CIL RETENTION :	RATIONALE:	(If a	applicab	le) ADEQUATE INADEQUATE	• •
ONLY WORST CASE	CONDITION :	ANALYS	SED.		

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8019	[ x ]				
MDAC ID:	8019	COMM AND TRACK 3019 PAN AND TILT UNIT (TVC B POSITION)				
LEAD ANALYST:	W.C. LONG	.c. Long				
ASSESSMENT:						
CRITICAL	-	CIL ITEM				
FLIGH HDW/FU	NC A	В	<b>c</b>	TIEM		
NASA [ 2 /2 IOA [ 2 /1R	] [ p ]	] [ ] [ ] [ P ] [	P ]	[ X ] * [ X ]		
COMPARE [ /N	] [ N ]	] [N] [	и ]	[ ]		
RECOMMENDATIONS:	(If diffe	erent from NASA	<b>(,</b>			
[ 2 /1R	] [P	] [P.] [	P ] (AI	[ ] DD/DELETE)		
* CIL RETENTION	RATIONALE:		ADEQUATE NADEQUATE			
REMARKS:  ERRATIC/INTERMITTANT OPERATION COULD RESULT IN LOSS OF CCTV AND MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD RESULT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN						

RESULT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8019 2.2.7	3/05/88 NASA DATA: COMTRK-8019A BASELINE [ 2.2.7 NEW [				
SUBSYSTEM: MDAC ID: ITEM:	8019	CK UNIT (TVC B POS	ITION)			
LEAD ANALYST:	W.C. LONG					
ASSESSMENT:						
CRITICAL: FLIGHT HDW/FUI	r .	NDANCY SCREENS B C	CIL ITEM			
NASA [ 2 /2 IOA [ 2 /1R	] [ p ]	[ ] [ [ P ] [ P	[ X ] * ] [ X ]			
COMPARE [ /N	] [ N ]	[ N ] [ N	] [ ]			
RECOMMENDATIONS:	(If differ	ent from NASA)				
[ 2 /1R	] [P]	[P] [P	] [ ] (ADD/DELETE)			
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]						
REMARKS: ERRATIC/INTERMITTANT OPERATION COULD RESULT IN LOSS OF CCTV AND						
			CTV FUNCTION COULD			
RESULT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY						
EXISTS VIA CREW VINSPECTION AND RE						
CASE CONDITION.	TO OFFITTOOM I	O MILLON I/LI DAI	Sook Chobokh. Wokbi			

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8		NASA BASE	DATA: LINE [ ] NEW [ X ]
	COMM AND 8019 PAN AND		(TVC B POSITI	on)
LEAD ANALYST:	W.C. LON	G		
ASSESSMENT:				
CRITICAL FLIGH		REDUNDANCY	SCREENS	CIL ITEM
	NC	A E	B C	
NASA [ 2 /2 IOA [ 2 /1R	] [			[ X ] *
COMPARE [ /N	] [	N ] [ N	и] [и]	[ ]
RECOMMENDATIONS:	(If di	fferent fr	com NASA)	
[ 2 /1R	] [	P ] [ I	P] [P]	[ ] (ADD/DELETE)
* CIL RETENTION	RATIONALE	: (If appl	ADEQU	ATE [ X ]
	F ALL CAP AND MONIT	PABILITY TO CORING P/L	LD RESULT IN I PERFORM CCTV BAY DOOR LATO	OSS OF CCTV AND FUNCTION COULD IN

EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL

INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST

ASSESSME	NT	D	ATE:	3/	05/8	38											DATA					
ASSESSME ASSESSME NASA FME	NT	Į.	D:	CO	MTRI	K−8	30	19C						-	I	BASE	LINE	֟֝֝֟֝֟֝֟֝֟ <u>֚</u>	¥	]		
		••															11211	ι	41	1		
SUBSYSTE	M:			CO	MM A	ANI	) ·	ra	CK													
MDAC ID: ITEM:				PA	N Al	ND.	T	ILT	UN	ΓΊ	! (	(TV	C E	I	205	SITI	ON)					
LEAD ANA													14.4	-							٠	
			•																			
ASSESSME																			-			
	CR	IT	ICAL:	[TY			R	EDU	NDAI	NC.	Y	SC	REE	NS	3			CI				
	1	F. HD	LIGH W/FU	NC I'			A				В				С			1.1	EM	1		
NASA IOA	[	2	/2 /1R	]		[ [	P	]		[ [	P	]		[	P	]		[	X X	]	*	
																		ſ		1		
COMPARE	L		/N	J		Ĺ	N	J		L	N	j		L	IA	J		L		J		
RECOMMEN	DA'	ri(	ons:		(If	d:	if:	fer	ent	f	ro	om :	NAS	A)	ı							
	r	2	/1R	1		r	P	1		r	P	1		٢	P	1		Г		1		
•	L	-	/	J		L	-	1		١.	-	,		٠	_	J	(Al				TE)	
* CIL RE	TE	NT:	ION	RAT	ION	ALI	Ε:	(I	f a	pp	11	ica				SPOIT	3 00 10	•	v	,		
					: =									IN	AI IAI	DEQU.	ATE ATE	[	X	]		
REMARKS:																						
ERRATIC/ MISSION.	'IN'	TE.	RMIT'	ran	T 01	PEI	RA'	LIO.	N CO	OU m	LL	R אמ	ESU	L'I	' ] 	LN L	USS (	ンド	CC CK	.T.A	1A TTTO	שו
RESULT R																						
DOCCTRIE	т.	00	2 OF	77E	HTCI	H.	Δ1	UD.	CRE	<b>J</b>		IIN	T.TK	E	CC	י עיזיי	REDIII	<b>AUN</b>	NC	Y.		
EXISTS V	'IA	C	REW I	NIN	DOW	V.	IE	NIN	G, 1	ĒV	A	AN	DC	07	S	FOR	CREV	N V	'IS	UA	L	P = 1)
INSPECTI	ON	A.	nd ri	<b>NS</b>	JET?	ris	501	T	O A	LI	O.	V P	/L	BA	YΑ	D00	R CLO	ost	IRE	: .	WC	RST
CASE CON	IDI	TI	ON.																			

ASSESSMENT DATE:		NASA DATA	
ASSESSMENT ID: NASA FMEA #:	COMTRK-8019D 2.4.1.2	BASELIN NET	E [ ] W [ X ]
MDAC ID:	COMM AND TRACK 8019 PAN AND TILT U	NIT (TVC B POSITION)	
LEAD ANALYST:	W.C. LONG		
ASSESSMENT:			
CRITICAL FLIGH		DANCY SCREENS	CIL ITEM
HDW/FU	_	ВС	
NASA [ /2 IOA [ 2 /1R	[ P ]	[ ] [ ] [ P ] [ P ]	[ X ] * [ X ]
COMPARE [ /N	] [N]	[ N ] [ N ]	[ ]
RECOMMENDATIONS:	(If differer	nt from NASA)	
[ 2 /1R	[ P ]	[P] [P]	[ ] ADD/DELETE)
* CIL RETENTION	RATIONALE: (If	applicable) ADEQUATE INADEQUATE	
REMARKS: ERRATIC/INTERMIT	TANT OPERATION	COULD RESULT IN LOSS	OF CCTV AND

ERRATIC/INTERMITTANT OPERATION COULD RESULT IN LOSS OF CCTV AND MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD RESULT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.

2

3/05/88 COMTRK-8019E 2.4.2.1	NASA DATA: BASELINE NEW							
COMM AND TRACK 8019 PAN AND TILT UNIT	T (TVC B POSITION)							
W.C. LONG								
ASSESSMENT:								
	CY SCREENS	CIL						
	В с	ITEM						
] [ ] [ ] [ P ]	] [ ] P ] [ P ]	[ X ] *						
] [ N ] [	и] [и]	[ ]						
(If different f	rom NASA)	·						
] [ P ] [		[ ] D/DELETE)						
RATIONALE: (If app	olicable) ADEQUATE INADEQUATE	[ X ]						
TANT OPERATION COU	LD RESULT IN LOSS O	F CCTV AND						
MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD RESULT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN								
VEHICLE AND CREW.	UNLIKE CCTV REDUN	DANCY						
	COMM AND TRACK 8019 PAN AND TILT UNIT W.C. LONG  ITY REDUNDANC NC A  [	COMTRK-8019E 2.4.2.1  COMM AND TRACK 8019 PAN AND TILT UNIT (TVC B POSITION)  W.C. LONG  TY REDUNDANCY SCREENS NC A B C  [						

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-	8019F	1	NASA DATA: BASELINE NEW	[ x ]
MDAC ID:	COMM AND 8019 PAN AND	D TRACK TILT UNIT	(TVC B P	osition)	
LEAD ANALYST:	W.C. LO	NG			
ASSESSMENT:					
CRITICAL FLIGH		REDUNDANC	Y SCREENS	ı	CIL ITEM
		A	В	С	
NASA [ 2 /2 IOA [ 2 /1R	] [	] [ P ] [	P ] [	P ]	[ X ] *
COMPARE [ /N	] [	и ] [	и][и	N ]	[ ]
RECOMMENDATIONS:	(If d	lifferent f	from NASA)		
[ 2 /1R	2] [	P ] [	P ] [	P ] (AI	[ ] DD/DELETE)
* CIL RETENTION	RATIONAL	E: (If app		ADEQUATE NADEQUATE	
REMARKS: ERRATIC/INTERMIT MISSION. LOSS OF RESULT RMS STOW POSSIBLE LOSS OF EXISTS VIA CREW INSPECTION AND F	OF ALL CA AND MONI F VEHICLE WINDOW V RMS JETTI	APABILITY T TORING P/T AND CREW FIEWING. E	TO PERFORM L BAY DOOF . UNLIKE VA AND CO!	A CCTV FUNC R LATCHES I CCTV REDUI AS FOR CREV	RESULTING IN NDANCY W VISUAL

ASSESSMI ASSESSMI NASA FMI	ent Ent Ea	D I #:	ATE: D:	3/05 COMT 2.4.	/88 RK-: 3	80:	190	3				5			A DA		[		]	eren ere Selver Søgerkeren Eren ere
SUBSYSTI MDAC ID: ITEM:	EM:			COMM 8019 PAN						r	(TV	СВ	PC	SI	TION	1)				
LEAD ANA	TY	ST	:	W.C.	LO	NG														
ASSESSMI	ENT	:																		
	CR			<u>T</u> Y		RI	EDU	JND	AN	CY	SC	REE	NS				CI			
	1	F: HD	LIGHT W/FU	IC IC		A				В			C	:		4 18		'EN	[	
NASA IOA							]		[	P	]		[ [ P	]			]	X X	]	*
COMPARE	[		/N	]	1	N	]		[	N	j		[ N	]	*		[		]	
RECOMMEN	IDA'	ric	ons:	(I:	f d	ifi	er	en <sup>1</sup>	t :	fro	om 1	NAS	A)			-				
	. [	2	/1R	]	[	P	]		ָן	P	]		[ P	]				'DE		TE)
* CIL RE	TE	NT:	ION F	RATIO	NALI	€:	(1	f a	app	pli	cal		A		TAUÇ TAUÇ					
REMARKS:																	•		-	
ERRATIC/																				
MISSION. RESULT R	MC	ייטנ	יט פכ ג שחיו	MA CIN	CAL	'At	STN	LTI.	X 1	LO E	LE1	KFOI DOC	KM TD	CCI	LA T	UNC	TL	ON	m T	OULD
POSSIBLE	L	oss	OF	VEHIC	CLE	AN	ID	CRI	EW.		UNI	LIKI	E C	בתי	7 RF	אטם	ĎΑ	NC	Y	MG IN
EXISTS V	IA	CI	REW W	INDOV	V]	EW	IIN	ľĠ,	E	7A	ANI	) C	DAS	FC	R C	REW	V	IS	UA	L
INSPECTI	ON	Al	ND RM	is jei	TIS	ON	T	0 1	ALI	LOW	I P	L I	ЗАУ	DC	OR	CLO	SÜ	RE	•	WORS
CASE CON	DI.	CIC	ON.																	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	NASA DATA: BASELINE NEW	[ ] [ x ]			
SUBSYSTEM: MDAC ID: ITEM:	8020	TRACK	(TVC C F	POSITION)	
LEAD ANALYST:	W.C. LON	īG			
ASSESSMENT:					
CRITICAL FLIGH HDW/FU	T	REDUNDANC A	Y SCREENS B		CIL ITEM
NASA [ 2 /2 IOA [ 2 /1R	] [	P ] [	P ] [	p ]	[ X ] * [ X ]
COMPARE [ /N	] [	и ] [	и ј [	N ]	[ ]
RECOMMENDATIONS:	(If di	ifferent f	rom NASA)	)	
[ 2 /1R	] [	P ] [	P ] [	P ] (AD	[ ] D/DELETE)
* CIL RETENTION	RATIONALE	E: (If app		ADEQUATE NADEQUATE	[ X ]
REMARKS: PHYSICAL BINDING OF ALL CAPABILIT AND MONITORING P VEHICLE AND CREW EXISTS VIA CREW INSPECTION AND R	Y TO PERI L BAY DO UNLIKI WINDOW VI	FORM CCTV OOR LATCHE E CCTV REI IEWING, EV	FUNCTION S RESULT DUNDANCY A AND CO	COULD RESU ING IN POSS AS FOR CREW	ILT RMS STOW SIBLE LOSS OF VISUAL
CASE CONDITION.					

ASSESSMENT ASSESSMENT NASA FMEA	ID:	COMTRK-	3 -8020A	ī	NASA DATA BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:		8020		VIT (TVC (	C POSITION)	
LEAD ANALYS	ST:	W.C. LO	NG		14 a	
ASSESSMENT:	:					
	FLIGHT	ITY I IC		NCY SCREI	ENS	CIL ITEM
NASA [ IOA [	2 /2 2 /1R	] [	P ]	[ ] [ P ]	[ ] [ P ]	[ X ] *
COMPARE [	/N	] [	ן א	[ N ]	[ N ]	[ ]
RECOMMENDAT	'IONS:	(If d	ifferent	from NAS	SA)	
[	2 /1R	] [	P j	[ P ]	[ P ]	[ DD/DELETE)
* CIL RETEN	TION F	RATIONAL	E: (If a	pplicable	e) ADEQUATE INADEQUATE	[ X ]
OF ALL CAPA AND MONITOR VEHICLE AND EXISTS VIA	BILITY ING P/ CREW.	TO PER L BAY DO UNLIK UNDOW V	FORM CCT OOR LATC E CCTV R IEWING,	V FUNCTION HES RESUI EDUNDANCY EVA AND O	COAS FOR CREW	ULT RMS STOW SIBLE LOSS OF VISUAL
CASE CONDIT		O OBILL	DOM TO W	TITOM E/II	BAY DOOR CLC	SURE. WURST

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-1	8020B		NASA DATA BASELINE NEW	
MDAC ID:	COMM AND 8020 PAN AND	D TRACK TILT UNI	r (TVC C	POSITION)	
LEAD ANALYST:	W.C. LO	NG			
ASSESSMENT:					
CRITICAL FLIGH		REDUNDAN	CY SCREEN	S	CIL ITEM
	NC	A	В	С	
NASA [ 2 /2 IOA [ 2 /1R	] [	] [ P] [	P ] [	P ]	[ X ] * [ X ]
COMPARE [ /N	] [	и ] [	и ] [	и ј	[ ]
RECOMMENDATIONS:	(If d	ifferent	from NASA	)	
[ 2 /1R	[	P ] [	P ] [		[ DD/DELETE)
* CIL RETENTION	RATIONAL	E: (If ap		ADEQUATE NADEQUATE	
REMARKS: PHYSICAL BINDING OF ALL CAPABILIT AND MONITORING F VEHICLE AND CREW EXISTS VIA CREW	Y TO PER L BAY D UNLIK WINDOW V	FORM CCTV OOR LATCH E CCTV RE IEWING, E	FUNCTION ES RESULT DUNDANCY VA AND CO	COULD RESING IN POSE	ULT RMS STOW SIBLE LOSS OF W VISUAL
INSPECTION AND R	MS JETTI	SON TO AL	LOW P/L B	AY DOOR CL	OSURE. WORST

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8 2.4.1.1	3020C		BASELINE NEW	[ X ]				
SUBSYSTEM:	COMM ANI	OMM AND TRACK 020 OAN AND TILT UNIT (TVC C POSITION)							
LEAD ANALYST:	W.C. LON	1G		[ <u>*</u> ]	paration and				
ASSESSMENT:									
CRITICAL	ITY	REDUNDANG	CY SCREENS	ाडको से सम्बद्ध	CIL				
FLIGH HDW/FU	T NC	A	В	3 1	ITEM				
NASA [ 2 /2 IOA [ 2 /1R	] [	P ] [	P ] [ 1	P ]	[ X ] *				
COMPARE [ /N	] [	и ] [	и ј _ [ и	4 ]					
RECOMMENDATIONS:	(If di	ifferent 1	from NASA)		<del>-</del>				
[ 2 /1R	. ] . [	P ] [	P ] [ I	P ] (AI	[ ] DD/DELETE)				
* CIL RETENTION	RATIONALE	E: (If app		ADEQUATE ADEQUATE	[ X ]				
REMARKS:									
PHYSICAL BINDING OF ALL CAPABILIT	COULD RE	ESULT IN I	LOSS OF CCT	COLLD DECL	SSION. LOSS				
AND MONITORING P									
VEHICLE AND CREW	UNLIKE	E CCTV REI	OUNDANCY	,C III 1000	The Loop Of				
EXISTS VIA CREW	WINDOW VI	EWING, EV	A AND COAS	FOR CREV	VISUAL				
INSPECTION AND R	MS JETTIS	SON TO ALI	LOW P/L BAY	DOOR CLO	SURE. WORST				

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-80	20D	NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	8020		TVC C POSITION)	
LEAD ANALYST:	W.C. LONG	}		
ASSESSMENT:				
		REDUNDANCY S	SCREENS	CIL ITEM
FLIGH HDW/FU	nc A	A B	C	
NASA [ 2 /2 IOA [ 2 /1R	] [ F	] [ ] P ] [ P ]	] [ ] ] [ P ]	[ X ] * [ X ]
COMPARE [ /N	] [ ]	N ] [N ]	] [ N ]	[ ]
RECOMMENDATIONS:	(If dif	fferent from	m NASA)	
[ 2 /1R	:] [ <b>:</b>	P] [P]	] [P] (Al	[ ] DD/DELETE)
* CIL RETENTION	RATIONALE:	: (If applio	cable) ADEQUATE INADEQUATE	
OF ALL CAPABILIT AND MONITORING F VEHICLE AND CREW	Y TO PERFO P/L BAY DOO J. UNLIKE WINDOW VII	ORM CCTV FUI OR LATCHES I CCTV REDUNI EWING, EVA	S OF CCTV AND MIS NCTION COULD REST RESULTING IN POSS DANCY AND COAS FOR CRE P/L BAY DOOR CL	SIBLE LOSS OF

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK- 2.4.2.1	8020E		NASA DATA BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	8020			C POSITION)	
LEAD ANALYST:	W.C. LO	NG			
ASSESSMENT:					
CRITICAL		REDUND	ANCY SCRE	ENS	CIL
FLIGH HDW/FU	T NC	<b>A</b>	В	<b>C</b>	ITEM
NASA [ 2 /2 IOA [ 2 /1R	] [	p ]	[ ] [ P ]	[ ] [ P ]	[ X ] *
COMPARE [ /N	] [	n ]	[ N ]	[ N ]	[ ]
RECOMMENDATIONS:	(If d	ifferen	t from NA	SA)	
[ 2 /1R	] [	P ]	[ P ]		[ ] DD/DELETE)
* CIL RETENTION :	RATIONAL	E: (If a	applicabl	e) ADEQUATE INADEQUATE	
PHYSICAL BINDING	COULD R	ESULT I	N LOSS OF	CCTV AND MI	SSION. LOSS
OF ALL CAPABILITY	Y TO PERI	FORM CC	TV FUNCTION	ON COULD RES	ULT RMS STOW
AND MONITORING POWER OF THE PROPERTY OF THE PR	UNLIKI	E CCTV 1	REDUNDANC	LTING IN POS	SIRPE FOSS OF
EXISTS VIA CREW	WINDOW V	IEWING,	EVA AND	COAS FOR CRE	
INSPECTION AND RI	MS JETTIS	SON TO	ALLOW P/L	BAY DOOR CL	OSURE. WORST
CASE CONDITION.					

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8020F 2.4.2.2	BASELIN	NASA DATA: BASELINE [ ] NEW [ X ]						
	COMM AND TRACK 8020 PAN AND TILT UNI	T (TVC C POSITION)							
LEAD ANALYST:	W.C. LONG								
ASSESSMENT:									
CRITICAL FLIGH	ITY REDUNDAN	ICY SCREENS	CIL ITEM						
HDW/FU		ВС							
NASA [ 2 /2 IOA [ 2 /1R	] [ ] [ :] [ P ] [	[ ] [ ] [ P ] [ P ]	[ X ] * [ X ]						
COMPARE [ /N	] [и] [	[и] [и]	[ ]						
RECOMMENDATIONS:	(If different	from NASA)							
[ 2 /1R	:] [P]	[P] [P] (	[ ] ADD/DELETE)						
* CIL RETENTION	RATIONALE: (If a	oplicable) ADEQUATE INADEQUATE	[ X ]						
OF ALL CAPABILIT AND MONITORING F VEHICLE AND CREW EXISTS VIA CREW	Y TO PERFORM CCTV P/L BAY DOOR LATCI W. UNLIKE CCTV RI WINDOW VIEWING,	LOSS OF CCTV AND M V FUNCTION COULD RE HES RESULTING IN PO EDUNDANCY EVA AND COAS FOR CF LLOW P/L BAY DOOR C	SULT RMS STOW SSIBLE LOSS OF REW VISUAL						

ASSESSM ASSESSM NASA FM	ENT I ENT I EA #:	DATE: [D:	3/05/ COMTR 2.4.3	88 K-	80	20G					N.	asa Base	DATA LINE NEW			]	
SUBSYST: MDAC ID ITEM:	EM:			AN:	D '	TRAC	CK	T		<b>c</b> :	::==		ON)			v .	a lina ing Mga mga
LEAD AN	ALYSI	r:	W.C.	LO	NG							-					
ASSESSM	ENT:	:															
		'ICAL	ITY		R	EDUN	IDAN	CY	SCRI	EEN:	S				ΙL		
			NC		A			В			С			17	ľEI	71	
NASA IOA	[ 2	2 /2 2 /1R	]	[	P	]	[ [	P	]	[	P	]		[	X X	]	*
COMPARE	[	/N	]	[	N	]	[	N	]	[	N	]		[		]	
RECOMMEN	NDATI	ons:	(If	d:	if	fere	nt	fro	om N2	ASA)	)						
	[ 2	2 /1R	J	[	P	]	[	P	]	[	P	]	(AI		/DI		ETE)
* CIL RI	ETENI	CION I	RATION	ALI	Ξ:	(If	ap	p1:	icab]		AI	DEQU	ATE ATE	[	x	]	
REMARKS	:									1.1	AMI	JEQUI	AIE	L		J	
PHYSICAL OF ALL ( AND MONI VEHICLE EXISTS V	CAPAE TORI AND	NG P	TO P L BAY UNL	ERI DO IKI	FOI DOI E (	RM C R LA CCTV	CTV TCHI REI	FU ES DUN	INCTI RESU IDANC	ON JLT] CY	CO	OULD	POSS	IL]	T BLE	RMS E I	STOW LOSS OF
INSPECT	ON A	ND RI	IS JET	TIS	108	I TO	AL	LOV	V P/I	. B.	¥Υ	DOOL	R CLC	St	JRE		WORST

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8021 2.1.7	NAS. BA	A DATA: SELINE [ ] NEW [ X ]						
SUBSYSTEM:	COMM AND TRAC		TION)						
LEAD ANALYST:	W.C. LONG								
ASSESSMENT:									
CRITICAL	CIL ITEM								
FLIGH HDW/FU	NC A	в с	LIDR						
NASA [ 2 /2 IOA [ 2 /1R	[ P ]	[ ] [ ] [ P ]	[ X ] * [ X ]						
COMPARE [ /N	] [ N ]	[и] [и]	[ ]						
RECOMMENDATIONS:	(If differe	ent from NASA)							
[ 2 /1F	[.P.]	[ P ] [ P ]	[ ] (ADD/DELETE)						
* CIL RETENTION	RATIONALE: (I	ADE	QUATE [ X ] QUATE [ ]						
REMARKS: FAILURE TO START/STOP COULD RESULT IN LOSS OF CCTV AND MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD RESULT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST									

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-80 2.2.7	IASA DATA BASELINE NEW								
SUBSYSTEM: MDAC ID: ITEM:	COMM AND 8021 PAN AND		(TVC C PC	SITION)						
LEAD ANALYST:	W.C. LONG	G	- ·							
ASSESSMENT:										
CRITICAL	CIL									
FLIGH HDW/FC	NC 1	<b>A</b> :	в с	191 TT (, T	ITEM					
NASA [ 2 /2 IOA [ 2 /1F	] [	P] [	P ] [ F	]	[ X ] *					
COMPARE [ /N	] [1	и ] [и	и] [и	]	[ ]					
RECOMMENDATIONS:	(If dif	fferent f	rom NASA)							
[ 2 /1F	.] [1	P] [1	P] [P		[ ] DD/DELETE)					
* CIL RETENTION	RATIONALE:	: (If app	· A	DEQUATE DEQUATE	[ X ]					
REMARKS:	/CTOD			~	. ,					
FAILURE TO START										
STOW AND MONITOR										
LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY										
EXISTS VIA CREW										
INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.										

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8021B	NASA DATA: BASELINE NEW	
MDAC ID:	COMM AND TRACK 8021 PAN AND TILT UNIT	(TVC C POSITION)	
LEAD ANALYST:	W.C. LONG		
ASSESSMENT:			
CRITICAL: FLIGHT	<del></del>	Y SCREENS	CIL ITEM
HDW/FUI		в с	
NASA [ 2 /2 IOA [ 2 /1R	] [ p ] [	P ] [ P ]	[ X ] *
COMPARE [ /N	] [ N ] [	и] [и]	[ ]
RECOMMENDATIONS:	(If different f	rom NASA)	
[ 2 /1R	] [P] [	P ] [ P ] (A)	[ ] DD/DELETE)
* CIL RETENTION	RATIONALE: (If app	olicable)	r <b>x</b> ı
\$ 1 A.		ADEQUATE INADEQUATE	į
LOSS OF ALL CAPA	BILITY TO PERFORM	I IN LOSS OF CCTV AND CCTV FUNCTION COULTAINED IN	ND MISSION. D RESULT RM

[S STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.

ASSESSMENT ASSESSMENT NASA FMEA	DATE: ID: #:	3/05/88 COMTRK- 2.4.1.1	8021C		NASA DATA BASELINE NEW	[ ]
SUBSYSTEM: MDAC ID: ITEM:		8021			C POSITION)	
LEAD ANALY	ST:	W.C. LO	NG			
ASSESSMENT						
CR	ITICALI	TTY	REDUND	ANCY SCRE	ens	CIL
	FLIGHT HDW/FUN	1C	A	В	<b>C</b>	ITEM
] ASAN ] AOI	2 /2 2 /1R			[ ] [ P ]	[ P]	[ X ] * [ X ]
COMPARE [	/N	] [	N J	[ N ]	[ N ]	
RECOMMENDA	TIONS:	(If d	ifferent	t from NAS	SA)	
	2 /1R	] [	P ]	[ P ]	[ P ] (A	[ ] DD/DELETE)
* CIL RETE	NTION F	RATIONALI	E: (If a	applicable	e) ADEQUATE INADEQUATE	[ X ] [ ]
REMARKS:		/aman aan				
LOSS OF AL	START/ L CAPAE	STOP COU	DLD RESU D PERFOI	RM CCTV FU	SS OF CCTV AND INCTION COULT	ND MISSION. D RESULT RMS
STOW AND M	ONITORI	NG P/L I	BAY DOOF	R LATCHES	RESULTING II	
LOSS OF VE					EDUNDANCY COAS FOR CREY	U VICIIAT
						SURE. WORST

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8 2.4.1.2	05/88 NASA DATA:  MTRK-8021D BASELINE [  14.1.2 NEW [								
SUBSYSTEM: MDAC ID:	COMM AND 8021	D TRACK		POSITION)						
LEAD ANALYST:	W.C. LO	NG								
ASSESSMENT:										
FLIGH'			CY SCREEN	ns C	CIL ITEM					
NASA [ 2 /2 IOA [ 2 /1R	] [	P ] [	p ]	[ ] [ P ]	[ X ] * [ X ]					
COMPARE [ /N	] [	и ј [	n j	[ N ]	[ ]					
RECOMMENDATIONS:	(If d	ifferent	from NAS	<b>A</b> )						
[ 2 /1R	] [	P ] [	P ]	[ P ] (AI	[ ] DD/DELETE)					
* CIL RETENTION	RATIONAL	E: (If ap		) ADEQUATE INADEQUATE	[ X ]					
REMARKS: FAILURE TO START LOSS OF ALL CAPA STOW AND MONITOR LOSS OF VEHICLE EXISTS VIA CREW INSPECTION AND R CASE CONDITION.	BILITY TO ING P/L I AND CREW WINDOW V	O PERFORM BAY DOOR . UNLIKE IEWING, E	CCTV FUI LATCHES I CCTV REI	NCTION COUL RESULTING IN DUNDANCY OAS FOR CREV	O RESULT RMS N POSSIBLE N VISUAL					

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8021E 2.4.2.1	NASA DATA BASELINE NEW							
MDAC ID:	COMM AND TRACK 8021 PAN AND TILT UNI	T (TVC C POSITION)							
LEAD ANALYST:	W.C. LONG								
ASSESSMENT:									
FLIGH	ITY REDUNDANG T NC A	CY SCREENS  B C	CIL						
NASA [ 2 /2 IOA [ 2 /1R	] [ p ] [	P ] [ P ]	[ X ] * [ X ]						
COMPARE [ /N	] [ N ] [	и ] [и]	[ ]						
RECOMMENDATIONS:	(If different	from NASA)							
[ 2 /1R	] [P] [	P ] [ P ] (A	[ ] DD/DELETE)						
* CIL RETENTION	RATIONALE: (If app	ADEQUATE							
INADEQUATE [ ]  REMARKS:  FAILURE TO START/STOP COULD RESULT IN LOSS OF CCTV AND MISSION.  LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD RESULT RMS  STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE  LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY  EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL  INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST  CASE CONDITION.									

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8			NASA DATA BASELINE NEW	
MDAC ID:	COMM AND 8021 PAN AND		IT (TVC C	POSITION)	
LEAD ANALYST:	W.C. LON	1G			
ASSESSMENT:					
CRITICAL: FLIGH		REDUNDA	NCY SCREEN	is	CIL ITEM
HDW/FU		A	В	C	
NASA [ 2 /2 IOA [ 2 /1R	] [	P ]	[ ] [ [ P ] [	[	[ X ] *
COMPARE [ /N	] [	N ]	[ N ]	[и]	[ ]
RECOMMENDATIONS:	(If di	ifferent	from NASA	A)	
[ 2 /1R	] [	P ]	[ P ]	[ P ] . (A	[ ] DD/DELETE)
* CIL RETENTION	RATIONALI	E: (If a	pplicable)	) ADEQUATE INADEQUATE	[ X ]
REMARKS: FAILURE TO START LOSS OF ALL CAPA STOW AND MONITOR	BILITY TO	O PERFOR	LT IN LOSS M CCTV FUI LATCHES I	S OF CCTV A	ND MISSION. D RESULT RM

LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST

ASSESSMI ASSESSMI NASA FMI	ent Ent Ea	D. I:	ATE: D:	3/0 COM 2.4	5/88 TRK- .3	80	210	į					ASA D BASEL		[		]		
SUBSYST: MDAC ID ITEM:	EM:			COM 802	M AN 1	D '	TRA	CK	- 15-		7C C	PO	SITIO	N)		ž.			
LEAD AN	ALY	ST	•	W.C	. Lo	NG							+ 1						
ASSESSMI	ENT	:																	
	CR					R	EDU	NDAN	CY	sc	CREEN	S	122.2			L			
	FLIGHT HDW/FUNC								В			C			Τ.1	EM	l		
NASA IOA	[	2	/2 /1R	]	]	P	]	[	P	]	]	P	]		]	X X	]	*	
COMPARE	[		/N	]	[	N	J	[	N	]	[	N	]		[		]		
RECOMMEN	IDA'	ΓI	ons:	(:	If d	if:	fer	ent :	fro	om.	NASA	)							
	[	2	/1R	]	[	P	]	[	<b>P</b>	]	[	P	]	(AI		DE		TE)	
* CIL RI	etei	NT:	ION I	RATI	ONAL	E:	(I	f app	<b>91</b> :	Lca	•	IA IAN	DEQUA'	TE TE	[	x	]		
REMARKS		-	n 2 D m	/ C.T.O.1											_				_
FAILURE LOSS OF																			
STOW AND	M	NC.	ITOR:	ING I	P/L 1	BA?	Z D	00R 1	'A'	CH	ES R	ESU	JLTIN	G IN	P	os	SI	BLE	
LOSS OF																		_	
EXISTS VINSPECT																			ъст
CASE CON									٧ ب	· .	/ L D	71	DOOR	CTC	JOU	KΕ	•	WU	KOT

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8021H	NASA D. BASEL	ATA: INE [ ] NEW [ X ]
SUBSYSTEM: MDAC ID: ITEM:	8021	NIT (TVC C POSITIO	N)
LEAD ANALYST:	W.C. LONG		
ASSESSMENT:			
CRITICAL FLIGH	ITY REDUNDA	ANCY SCREENS	CIL ITEM
HDW/FU		в с	
NASA [ 2 /2 IOA [ 2 /1R	[ ] [ P ]	[ P ] [ P ]	[ X ] * [ X ]
COMPARE [ /N	] [ N ]	[и] [и]	[ ]
RECOMMENDATIONS:	(If differen	t from NASA)	
[ 2 /1R	[P]	[P] [P]	[ ] (ADD/DELETE)
* CIL RETENTION	RATIONALE: (If	applicable) ADEQUA INADEQUA	TE [ X ]
LOSS OF ALL CAPA STOW AND MONITOR LOSS OF VEHICLE	ABILITY TO PERFO RING P/L BAY DOO AND CREW. UNLI WINDOW VIEWING.	ULT IN LOSS OF CCT ORM CCTV FUNCTION COOR LATCHES RESULTING KE CCTV REDUNDANCY EVA AND COAS FOR ALLOW P/L BAY DOOF	OV AND MISSION. COULD RESULT RMS IG IN POSSIBLE COREW VISUAL

ASSESSME	3/05/88 COMTRK-8021I							NASA DATA: BASELINE [ ]													
NASA FME	Α :	#:		2.	4.4.	1										N.	EW	[	X	]	
SUBSYSTEM MDAC ID: ITEM:	M:			80	21								с с			ION	)		*.		
LEAD ANAI	LY:	ST	:	W.	c. I	.OI	NG														
ASSESSMEN	T	:																			
•	CR.		ICAL:				R	EDU	NDA	NO	CY	SC	REEN	S					IL	F	
	1		LIGH W/FUI				A				В			С				1	ren	1	
NASA IOA	]	3 2	/3 /1R	]		]	P	]		[ [	P	]	[ [	P	]			[	x	]	*
COMPARE	[	N	/N	]		[	N	]		[	N	]	[	N	1			[	N	]	
RECOMMENI	DA:	ri(	ons:		(If	d:	ifi	fer	ent	1	ro	om 1	NASA	)							
	[		/	]		[		]		[		]	[		J	,	(AĽ	[ D,	/DI	] ELI	ETE;
* CIL RET	ľEì	T:	ION I	RAT	IONA	LI	€:	(I	f a	pŗ	11	cal	•			UATI UATI	E E	[		]	
REMARKS: ONLY WORS	ST	CZ	ASE (	CON	DITI	01	1 2	NA:	LYS	ΕI	).										

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	8022		NASA DATA BASELINE NEW		
MDAC ID:	COMM AND 8022 PAN AND		T (TVC (	C POSITION)	
LEAD ANALYST:	W.C. LO	NG			· •
ASSESSMENT:					
FLIGH'		REDUNDAN	CY SCREI	ens C	CIL ITEM
					r <b>v</b> 1 +
NASA [ 2 /2 IOA [ 2 /1R	] [	P ] [	P ]	[ P ]	[ X ] *
COMPARE [ /N	] [	и] [	N ]	[ N ]	[ ]
RECOMMENDATIONS:	(If d	ifferent	from NA	SA)	
[ 2 /1R	] [	P ] [	P ]	[ P ]	[ ] ADD/DELETE)
* CIL RETENTION	RATIONAL	E: (If ap	plicabl	e) ADEQUATE INADEQUATE	[ X ]
REMARKS: ERRATIC/INTERMIT MISSION. LOSS O PREVENT RMS STOW POSSIBLE LOSS OF EXISTS VIA CREW INSPECTION AND R	F ALL CA V AND MON VEHICLE WINDOW V	APABILITY IITORING I AND CREW IEWING, I	TO PERFORM BAY  UNLI  NA AND	ORM CCTV FUI DOOR LATCHES KE CCTV REDI COAS FOR CRI	NCTION COULD S RESULTING IN UNDANCY EW VISUAL

3/05/88 COMTRK- 2.2.7	8022A		NASA DAT BASELIN NI	
8022		•	VC C POSITION)	ı
w.c. Lo	NG		ಮ್ರಾಮ್ಮ್ ಕನ್ನಡಕ	
	REDUNDA	ANCY S	CREENS	CIL
	A	В	C	ITEM
] [	P ]	[ <sub>P</sub> ]	[ ] [ P ]	[ X ] * [ X ]
] [	N ]	[ א ]	[ N ]	[ ]
(If d	ifferent	from	NASA)	
] , [	P ]	[ P ]	[P] (	[ ] [ADD/DELETE)
RATIONAL	E: (If a	applica	able) ADEQUATE INADEQUATE	[ X ]
TANT OPE	RATION (	COULD F	RESULT IN LOSS	OF CCTV AND
AND MON VEHICLE WINDOW V	ITORING AND CRI IEWING,	P/L BA EW. UN EVA AN	AY DOOR LATCHE NLIKE CCTV RED ID COAS FOR CR	S RESULTING II UNDANCY EW VISUAL
	COMM AN 8022 PAN AND W.C. LO  ITY T NC  [ ] [ [ [ ] [ [ ] ] [ ] [ ] [ ] [ ] [	COMM AND TRACK 8022 PAN AND TILT UI W.C. LONG  ITY REDUNDAT NC A  [	COMM AND TRACK 8022 PAN AND TILT UNIT (TO W.C. LONG  ITY REDUNDANCY SO T NC A B  [	COMTRK-8022A BASELIN 2.2.7 NI  COMM AND TRACK 8022 PAN AND TILT UNIT (TVC C POSITION)  W.C. LONG  ITY REDUNDANCY SCREENS TNC A B C  [

ASSESSMENT D ASSESSMENT I NASA FMEA #:				NASA DATA BASELINE NEW			
SUBSYSTEM: MDAC ID: ITEM:	8022	COMM AND TRACK 8022 PAN AND TILT UNIT (TVC C POSITION)					
LEAD ANALYST	: W.C. I	W.C. LONG					
ASSESSMENT:					, es		
	ICALITY LIGHT	REDUNDA	ANCY SCRE	ENS	CIL ITEM		
_	W/FUNC	A	В	C			
NASA [ 2 IOA [ 2	/2 ] /1R ]	[ ] [ P ]	[ ] [ P ]	[ ] [ P ]	[ X ] * [ X ]		
COMPARE [	/N ]	[ N ]	[ N ]	[ N ]	[ ]		
RECOMMENDATI	ons: (If	differen	t from NA	ASA)			
[ 2	/1R ]	[ P ]	[ P ]	[ P ]	[ ] ADD/DELETE)		
* CIL RETENTION RATIONALE: (If applicable)							
	to the said sufference of			ADEQUATE INADEQUATE	[ X ] [ ]		
REMARKS: ERRATIC/INTE MISSION. LO	RMITTANT OF	PERATION (	COULD RES		OF CCTV AND		

ERRATIC/INTERMITTANT OPERATION COULD RESULT IN LOSS OF CCTV AND MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8022C		NASA DATA BASELINE NEW			
SUBSYSTEM: MDAC ID: ITEM:			POSITION)			
LEAD ANALYST:	W.C. LONG					
ASSESSMENT:						
	CRITICALITY REDUNDANCY SCREENS					
FLIGH HDW/FU	NC A	В	С	ITEM		
NASA [ 2 /2 IOA [ 2 /1R	] [ ] ]	[ ] [ [ P ]	P ]	[ X ] *		
COMPARE [ /N	] [N]	[ N ] [	n j	[ ]		
RECOMMENDATIONS:	(If differen	nt from NASA	) )			
[ 2 /1R	] [P]	[ P ] [	P ] (Al	[ ] DD/DELETE)		
* CIL RETENTION	* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]					
REMARKS: ERRATIC/INTERMIT MISSION. LOSS O PREVENT RMS STOW POSSIBLE LOSS OF EXISTS VIA CREW INSPECTION AND R	F ALL CAPABILI' AND MONITORING VEHICLE AND CI WINDOW VIEWING	COULD RESULTY TO PERFORM DO REW. UNLIKE	I IN LOSS ( M CCTV FUNC OR LATCHES CCTV REDUINAS FOR CREV	OF CCTV AND CTION COULD RESULTING IN NDANCY W VISUAL		

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8022D 2.4.1.2	NASA 1 BASE	DATA: LINE [ ] NEW [ X ]
SUBSYSTEM: MDAC ID: ITEM:	8022	K UNIT (TVC C POSITI	ON)
LEAD ANALYST:	W.C. LONG		
ASSESSMENT:			
		DANCY SCREENS	CIL ITEM
FLIGH HDW/FU	NC A	в с	
NASA [ 2 /2 IOA [ 2 /1R	] [ ] ] [ P ]	[ ] [ ] [ P ] [ P ]	[ X ] * [ X ]
COMPARE [ /N	] [ N ]	[ N ] [ N ]	[ ]
RECOMMENDATIONS:	(If differe	nt from NASA)	
[ 2 /1R	] [P]	[P] [P]	[ ] (ADD/DELETE)
* CIL RETENTION	RATIONALE: (If	ADEQU	ATE [ X ] ATE [ ]
MISSION. LOSS OF PREVENT RMS STOW POSSIBLE LOSS OF EXISTS VIA CREW	F ALL CAPABILI AND MONITORIN VEHICLE AND C WINDOW VIEWING	COULD RESULT IN ITY TO PERFORM CCTV G P/L BAY DOOR LATEREW. UNLIKE CCTV F, EVA AND COAS FOR ALLOW P/L BAY DOOR	CHES RESULTING IN REDUNDANCY CREW VISUAL

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8022E	BASELINE NEW	
MDAC ID:	COMM AND TRACK 8022 PAN AND TILT UNIT	r (TVC C POSITION)	
LEAD ANALYST:	W.C. LONG		
ASSESSMENT:			
CRITICALI FLIGHT	TY REDUNDANC	CY SCREENS	CIL ITEM
HDW/FUN		В С	liem
NASA [ 2 /2 IOA [ 2 /1R	] [ ] [ ] [ P ] [	P ] [ P ]	[ X ] *
COMPARE [ /N	] [ N ] [	иј [иј	[ ]
RECOMMENDATIONS:	(If different f	from NASA)	
[ 2 /1R	] [P] [	P ] [ P ] (AD	[ ] DD/DELETE)
* CIL RETENTION F	NATIONALE: (If app	olicable) ADEQUATE INADEQUATE	[ x ]
MISSION. LOSS OF PREVENT RMS STOW	'ALL CAPABILITY T AND MONITORING P/	INADEQUATE  JLD RESULT IN LOSS OF COMMENT OF THE PROPERTY OF T	F CCTV AND TION COULD RESULTING IN

EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-	: [ x ]					
	8022	COMM AND TRACK 8022 PAN AND TILT UNIT (TVC C POSITION)					
LEAD ANALYST:	W.C. LO	W.C. LONG					
ASSESSMENT:							
CRITICAL		REDUNDA	NCY SCREI	ens	CIL ITEM		
FLIGH HDW/FU		A	В	C	11011		
NASA [ 2 /2 IOA [ 2 /1R	] [	p ]	[ ] [ P ]	[ P ]	[ X ] *		
COMPARE [ /N	] [	N ]	[ N ]	[ N ]	[ ]		
RECOMMENDATIONS:	(If d	lifferent	from NAS	SA)			
[ 2 /1R	. ] [	P ]	[ P ]	[ P ] (A	[ ] .DD/DELETE)		
* CIL RETENTION	RATIONAL	E: (If a	applicable	e) ADEQUATE INADEQUATE	[ X ]		
REMARKS: ERRATIC/INTERMIT	TANT OPE	RATION (	COULD RES	ULT IN LOSS ORM CCTV FUN	OF CCTV AND		

ERRATIC/INTERMITTANT OPERATION COULD RESULT IN LOSS OF CCTV AND MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.

ASSES ASSES NASA	SME SME FME	NT NT A	D. I:	ATE D:	Ē:	3/ CC 2.	05/ MTR 4.3	88 K-	80	22	G							ASA 1 BASE1		[		]		
SUBSY MDAC ITEM:	ID:	M:				COMM AND TRACK 8022 PAN AND TILT UNIT (TVC C POSITIO						ON)												
LEAD	ANA	LY:	ST	:		W.	c.	LO	NG															
ASSES	SME	NT	:																					
	(	CR:	IT:	ICA	L	TY			R	ED	UND	AN	CY	S	CREI	ENS	3				ΙL			
		J	.r. IDI	LIG W/F	UV UU'	IC IC			A				В				С			1.	ΓEI	1		
NA I	SA OA	]	2	/2 /1	.R	]		[	P	]		[	P	]		]	P	]		[	X X	]	*	
COMPA	RE	[		/N	Γ	]		[	N	]		[	N	]		[	N	]		[		]		
RECOM	MENI	)A	rio	SMC	:		(If	d:	if	fe	ren	t :	fro	om	NAS	A)	1							
		[	2	/1	R	]		[	P	]		[	P	]		ι.	P	]	(Al		/DI		ETE	)
* CIL	RET	ΓEÌ	VT:	ION	F	TAS	ION	AL	E:	(	If a	apı	<b>91</b>	Lca	able	•		EQU <i>A</i>			x	]		
REMAR							· .				<b>-</b>							·-		•		•		
ERRAT																								
PREVE																								
POSSI																							. 111	9 11
EXIST	s vi	[A	CI	REW	W	IN	DOM	V.	ΙEΊ	WI	NG,	E١	JΆ	AN	ND C	OA	S	FOR	CREV	<i>7</i> V	7IS	UA	L	
INSPE	CTIC	N	Al	ND	RM	S	JET:	ris	501	N '	TO	ALI	LOF	7 1	2/L	BA	Y	DOOF	CLC	ost	JRE	: .	W	ORS
CASE																								

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8 2.1.7	8023		NASA DATA: BASELINE NEW	
MDAC TD:	COMM AND 8023 PAN AND		TVC D	POSITION)	
LEAD ANALYST:	W.C. LO	NG			
ASSESSMENT:					
		REDUNDANO	CY SCREE	NS	CIL ITEM
FLIGH HDW/FU	NC	A	В	С	
NASA [ 2 /2 IOA [ 2 /1R	] [	p ] [	p ]	[ ] [ P ]	[ X ] *
COMPARE [ /N	] [	и][	и ј	[и]	[ ]
RECOMMENDATIONS:	(If d	lifferent :	from NAS	A)	
[ 2 /1R	[ ]	P ] [	P ]	[ P ] (A	[ ] DD/DELETE)
* CIL RETENTION	RATIONAL	E: (If ap)		e) ADEQUATE INADEQUATE	[ X ]
REMARKS: PHYSICAL BINDING OF ALL CAPABILIT AND MONITORING F VEHICLE AND CREW EXISTS VIA CREW	Y TO PER L BAY D UNLIK WINDOW V	RFORM CCTV COOR LATCH KE CCTV RE VIEWING, E	FUNCTIO ES RESUI DUNDANCY VA AND O	ON COULD PRE TING IN POS COAS FOR CRE	VENT RMS STOW SIBLE LOSS OF W VISUAL
INSPECTION AND F	CM2 DELLIT	PON IO YP	TOM E/T	DAT DOOK CE	Cond

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8023A 2.2.7		NASA DATA BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8023 PAN AND TILT U		) POSITION)	
LEAD ANALYST:	W.C. LONG			
ASSESSMENT:				
FLIGH				CIL ITEM
•	NC A	<b>B</b>	С	
NASA [ 2 /2 IOA [ 2 /1R	] [ ] ] [ P ]	[ ] [ P ]	[ ] [ P ]	[ X ] * [ X ]
COMPARE [ /N	] [ N ]	[и]	[ N ]	[ ]
RECOMMENDATIONS:	(If different	t from NAS	<b>A)</b>	
[ 2 /1R	] [ P ]	[ P ]		[ ] DD/DELETE)
* CIL RETENTION	RATIONALE: (If a	applicable		
			ADEQUATE INADEQUATE	
REMARKS:			INADEQUATE	L J
PHYSICAL BINDING	COULD RESULT IN	I LOSS OF	CCTV AND MIS	SSION. LOSS
OF ALL CAPABILITY				
AND MONITORING P				SIBLE LOSS OF
VEHICLE AND CREW				, ,,,,,,,,
EXISTS VIA CREW INSPECTION AND R	MS JETTISON TO A	EVA AND C	DAS FOR CREW	SLIBE MUDGE ANDRES
CASE CONDITION.			Dir Doom CEC	CORDI

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-802	23B	NASA DATA BASELINE NEW	
	8023	TRACK ILT UNIT (TVC	D POSITION)	
LEAD ANALYST:	W.C. LONG			
ASSESSMENT:				
CRITICAL FLIGH		EDUNDANCY SCRE	ENS	CIL ITEM
	NC A	В	С	
NASA [ 2 /2 IOA [ 2 /1R	] [ ] [ P	] [ ] ] [ P ]	[ ] [ P ]	[ X ] * [ X ]
COMPARE [ /N	] [ N	] [N]	[ N ]	[ ]
RECOMMENDATIONS:	(If dif	ferent from NA	SA)	
[ 2 /1R	[ P	[ P ]	[ P ]	[ ] DD/DELETE)
* CIL RETENTION	RATIONALE:	(If applicabl	.e) ADEQUATE INADEQUATE	
REMARKS: PHYSICAL BINDING OF ALL CAPABILIT AND MONITORING P VEHICLE AND CREW	Y TO PERFO	RM CCTV FUNCTI R LATCHES RESU	F CCTV AND MI ON COULD PRE ULTING IN POS	SSION. LOSS VENT RMS STOW

EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL

INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8023C 2.4.1.1	NASA DATA BASELINE NEW			
SUBSYSTEM: MDAC ID:	COMM AND TRACK 8023				
LEAD ANALYST:	W.C. LONG		the second		
ASSESSMENT:					
CRITICAL	ITY REDUNDA	ICY SCREENS	CIL		
FLIGH	NC A	ВС	ITEM		
NASA [ 2 /2 IOA [ 2 /1R	] [ ] ] ]	[ ] [ ] [ P ] [ P ]	[ X ] *		
COMPARE [ /N	] [ N ]	[ ו מ ]	[ ]		
RECOMMENDATIONS:	(If different	from NASA)			
[ 2 /1R	] [P]	[P] [P] (Al	[ ] DD/DELETE)		
	* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]				
OF ALL CAPABILITY AND MONITORING P, VEHICLE AND CREW EXISTS VIA CREW	Y TO PERFORM CCTV /L BAY DOOR LATCH . UNLIKE CCTV RI WINDOW VIEWING, I	LOSS OF CCTV AND MIST FUNCTION COULD PREVIES RESULTING IN POSSEDUNDANCY TVA AND COAS FOR CREVILLOW P/L BAY DOOR CLO	VENT RMS STOW SIBLE LOSS OF W VISUAL		

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8023D	NASA DATA: BASELINE NEW						
MDAC ID:	COMM AND TRACK 8023 PAN AND TILT UNIT							
LEAD ANALYST:	W.C. LONG	.c. Long						
ASSESSMENT:								
CRITICAL FLIGH	ITY REDUNDANC	CY SCREENS	CIL ITEM					
		В С						
NASA [ 2 /2 IOA [ 2 /1R	[ P ] [	P ] [ P ]	[ X ] * [ X ]					
COMPARE [ /N	] [N][	N ] [N]	[ ]					
RECOMMENDATIONS:	(If different f	from NASA)						
[ 2 /1F	R ] [P] [	P ] [ P ] (Al	[ DD/DELETE)					
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]								
OF ALL CAPABILITAND MONITORING FOR VEHICLE AND CREW	TY TO PERFORM CCTV P/L BAY DOOR LATCHI W. UNLIKE CCTV REI WINDOW VIEWING, EV	LOSS OF CCTV AND MISTUNCTION COULD PRESES RESULTING IN POSSIBLE OF CRESES OF	VENT RMS STOW SIBLE LOSS OF W VISUAL					

ASSESSM ASSESSM NASA FM	ENT ENT EA	D I #:	ATE:	:	3/05/8 COMTRI 2.4.2	38 (-8	30:	23E					N	ASA DA BASEL 1	ATA INE NEW	[	X	 ] * ]	8.42-14 ≜84-44-49	
SUBSYST MDAC ID ITEM:	EM:				COMM A	NI	? (	TRAC	K	i sti	u e su usida Per e se de des							.41		gri ekt
LEAD AN	ALY	ST	:	1	W.C. 1	.O)	1G					. Bir.					÷	٠.		=
ASSESSM	ENT	:	- :-																	
	CR		ICAI LIGI		TY		RI	EDUN	DANG	CY	SCR	EEN	s			CI		,		
		-			С		A			В			С			11	EM	L		
NASA IOA	[	2 2	/2 /19	₹ .	]	[	P	]	]	P	]	[	P	]		[	X X	]	*	
COMPARE	C		/N		]	[	N	]	[	N	]	[	N	]		[		]		
RECOMME	NDA	TI	ONS:	:	(If	di	fí	fere	nt 1	fro	om Ni	ASA	)							
	[	2	/1F	₹ ]	]	[	P	]	[	P	]	[	P	]		[ DD/			TE)	
* CIL R		NT:	ION	R	ATIONA	LE	E:	(If	app	<b>1</b> 1	lcab:	•	IA IAN	DEQUAT	re re	[	X	]		
REMARKS PHYSICA	-	TNI	DTNO	: (	COTITO	ਸ਼ਸ਼	:51	ייי. דו	TN T		S 01	F C	كىلىت	7 AND	MTS	ST	ON		TΩ	55
OF ALL	CAP.	AB.	ILII	ĽΥ	TO PE	RF	OF	RM C	CTV	FU	NCT:	ION	CC	OULD E	PREV	EN'	T	RM	S S'	WOT
AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY																				
EXISTS '													AS	FOR C	CREW	v	IS	UA	L	
INSPECT																				RST

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8	3023F		NASA DATA: BASELINE NEW			
SUBSYSTEM: MDAC ID: ITEM:	XU23		IT (TVC D	POSITION)			
LEAD ANALYST:	W.C. LON	NG					
ASSESSMENT:							
		REDUNDA	NCY SCREEN	ıs	CIL ITEM		
FLIGH HDW/FU	NC	A	В	С	TIEM		
NASA [ 2 /2 IOA [ 2 /1R	] [	p ]	[ ]   [ P ]	[ ] [ P ]	[ X ] *		
COMPARE [ /N	] [	N ]	[и]	[ N ]			
RECOMMENDATIONS:	(If di	ifferent	from NASA	A)			
[ 2 /1R	] [	P ]	[ P ]	[ P ] (AI	[ ] DD/DELETE)		
* CIL RETENTION	RATIONALI	E: (If a	_	ADEQUATE INADEQUATE			
 REMARKS: PHYSICAL BINDING OF ALL CAPABILIT AND MONITORING P VEHICLE AND CREW EXISTS VIA CREW INSPECTION AND R CASE CONDITION.	Y TO PERI /L BAY DO . UNLIKI WINDOW V	FORM CCT OOR LATC E CCTV R IEWING,	LOSS OF ( FUNCTION HES RESULT EDUNDANCY EVA AND CO	CCTV AND MIS N COULD PREV FING IN POSS	SSION. LOSS VENT RMS STOV SIBLE LOSS OF W VISUAL		

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8023G 2.4.3	٠.	NASA DATA: BASELINE NEW	:			
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRAC 8023 PAN AND TILT						
LEAD ANALYST:	W.C. LONG		2 2				
ASSESSMENT:							
FLIGH	ITY REDUI			CIL ITEM			
HDW/FU	NC A	В	C				
NASA [ 2 /2 IOA [ 2 /1R	[ P ]	[ ] [ [ P ] [	[ ] [ P ]	[ X ] * [ X ]			
COMPARE [ /N	] [N]	[и]	[ и ]	[ ]			
RECOMMENDATIONS:	(If differe	ent from NASA	4)				
[ 2 /1R	[ P ]	[P] [	[ P ] (AI	[ ] DD/DELETE)			
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ] INADEQUATE [ ]							
REMARKS: PHYSICAL BINDING	COULD RESULT	IN LOSS OF C	CTV AND MTS	SSTON. LOSS			
OF ALL CAPABILIT	Y TO PERFORM	CTV FUNCTION	OULD PREV	VENT RMS STOW			
AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF							
VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL							
INSPECTION AND R	MS JETTISON TO	ALLOW P/L E	BAY DOOR CLO	SURE. WORST			
CASE CONDITION.		-					

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8	3024	NASA DATA: BASELINE [ ] NEW [ X ]					
SUBSYSTEM; MDAC ID: ITEM:	8024		r (TVC D	POSITION)				
LEAD ANALYST:	W.C. LON	I.C. LONG						
ASSESSMENT:								
CRITICAL: FLIGHT		REDUNDAN	CY SCREEN	S	CIL ITEM			
	NC	A	В	С				
NASA [ 2 /2 IOA [ 2 /1R	] [	P ] [	P ] [	P ]	[ X ] * [ X ]			
COMPARE [ /N	] [	и ] [	N ] [	и ]	[ ]			
RECOMMENDATIONS:	(If d	ifferent	from NASA	)				
[ 2 /1R	] [	P ] [	P ] [	P ] (AI	[ ] DD/DELETE)			
* CIL RETENTION	RATIONAL	E: (If ap	plicable) T	ADEQUATE NADEQUATE	[ X ]			
REMARKS: FAILURE TO START LOSS OF ALL CAPA STOW AND MONITOR	BILITY T	O PERFORM	T IN LOSS	OF CCTV AI	ND MISSION. D PREVENT RM			

FAILURE TO START/STOP COULD RESULT IN LOSS OF CCTV AND MISSION.
LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS
STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE
LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY
EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL
INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST
CASE CONDITION.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8024	A	NASA DATA: BASELINE [ ] NEW [ X ]				
SUBSYSTEM: MDAC ID: ITEM:	8024	ack T UNIT (TVC D P	OSITION)				
LEAD ANALYST:	W.C. LONG						
ASSESSMENT:							
CRITICAL: FLIGHT		UNDANCY SCREENS					
	NC A	В	ITEM C - Parker of Control				
NASA [ 2 /2 IOA [ 2 /1R	] [ p ]	[ ] [ [ P ] [	[ X ] * P ] [ X ]				
COMPARE [ /N	] [ N ]	[ N ] [ :	и ј ј				
RECOMMENDATIONS:	(If differ	rent from NASA)					
[ 2 /1R	] [ P ]	[ P ] [ 1	P ] [ ] (ADD/DELETE)				
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]							
LOSS OF ALL CAPAR STOW AND MONITORI LOSS OF VEHICLE A EXISTS VIA CREW W	BILITY TO PER ING P/L BAY I AND CREW. UN VINDOW VIEWIN	RFORM CCTV FUNCTION TO THE STATE OF THE STAT	OF CCTV AND MISSION. FION COULD PREVENT RMS SULTING IN POSSIBLE NDANCY FOR CREW VISUAL Y DOOR CLOSURE. WORST				

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK- 2.3.7	8024B		NASA DATA: BASELINE NEW			
SUBSYSTEM: MDAC ID: ITEM:	8024	D TRACK TILT UNIT	<u>-</u>				
LEAD ANALYST:							
ASSESSMENT:							
		REDUNDAN	CY SCREENS	S	CIL ITEM		
FLIGI HDW/F	INC	A	В	С			
NASA [ 2 /2 IOA [ 2 /1]	] [	] [ P] [	p ] [	P ]	[ X ] *		
COMPARE [ /N	] [	и ј [	и ] [	и ј	[ ]		
RECOMMENDATIONS	: (If d	lifferent	from NASA	)			
[ 2 /1	R ] [	[ P ] [	P ] [	P ] (A	[ ] DD/DELETE)		
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]							
REMARKS: FAILURE TO START/STOP COULD RESULT IN LOSS OF CCTV AND MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST							

ASSESSME ASSESSME NASA FME	NT I	D:	COMTR	COMTRK-8024C BASELINE						[		]	- · · · · · · · · · · · · · · · · · · ·			
SUBSYSTE MDAC ID:			8024	COMM AND TRACK 8024 PAN AND TILT UNIT (TVC D POSITION)									24 N. C			
LEAD ANA	LYST	<b>':</b>	W.C. LONG													
ASSESSMENT:																
CRITICALITY					RJ	EDUNI	OAN	CY	SC	REENS	3			CIL ITEM		
	_	LIGH' W/FU	NC I		A			В			С	the Common Commo	11	LEW	l	
NASA IOA	[ 2 [ 2	/2 /1R	]	[	P	]	[	P	]	[ [	P	]	[	X X	] *	•
COMPARE	[	/N	]	[	N	]	[	N	]	[	N	1	[		]	
RECOMMEN	DATI	ons:	(If	d:	ifi	ferer	nt :	fro	om 1	NASA)						
	[ 2	/1R	]	[	P	]	[	P	]	[	P		[ DD/	/DE	] LEI	E)
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ] INADEQUATE [ ]																
REMARKS: FAILURE TO START/STOP COULD RESULT IN LOSS OF CCTV AND MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS																

FAILURE TO START/STOP COULD RESULT IN LOSS OF CCTV AND MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8024D	NASA DATA: BASELINE [ ] NEW [ X ]					
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8024 PAN AND TILT UNIT (TVC D	POSITION)					
LEAD ANALYST:	W.C. LONG						
ASSESSMENT:							
CRITICAL FLIGH	ITY REDUNDANCY SCREEN	NS CIL ITEM					
	NC A B	C					
NASA [ 2 /2 IOA [ 2 /1R	[ ] [ ] [ ] [ P ]	[ ] [ X ] * [ P ] [ X ]					
COMPARE [ /N	] [и] [и]	[и] [и]					
RECOMMENDATIONS:	(If different from NASA	A)					
[ 2 /1R	[P] [P]	[P] [] (ADD/DELETE)					
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]							
REMARKS: FAILURE TO START/STOP COULD RESULT IN LOSS OF CCTV AND MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST							

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8024E	NASA DATA BASELINE NEW				
	COMM AND TRACK 8024 PAN AND TILT UNIT	r (TVC D POSITION)				
LEAD ANALYST:	W.C. LONG	esa este este este este este este este e	1 -			
ASSESSMENT:						
	CY SCREENS	CIL ITEM				
FLIGH HDW/FU		ВС	IIEM			
NASA [ 2 /2 IOA [ 2 /1R	] [ p ] [	P ] [ P ]	[ X ] * [ X ]			
COMPARE [ /N	] [и][	и ] [и]	[ ]			
RECOMMENDATIONS:	(If different	from NASA)				
[ 2 /1R	] [P] [		[ ] DD/DELETE)			
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]						
LOSS OF ALL CAPA STOW AND MONITOR	BILITY TO PERFORM	INADEQUATE I IN LOSS OF CCTV AN CCTV FUNCTION COULT LATCHES RESULTING IN CCTV REDUNDANCY	ND MISSION. D PREVENT RMS			

EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8024F 2.4.2.2	NASA DATA: BASELINE NEW					
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8024 PAN AND TILT UNI						
LEAD ANALYST:	W.C. LONG	I.C. LONG					
ASSESSMENT:							
	CY SCREENS	CIL					
FLIGH HDW/FU	NC A	ВС	TIEM				
NASA [ 2 /2 IOA [ 2 /1R	] [ ] [ ] [ P ] [	P ] [ P ]	[ X ] * .				
COMPARE [ /N	] [N][	и] [и]	[ ]				
RECOMMENDATIONS:	(If different	from NASA)					
[ 2 /1R	] [P] [	P] [P] (AI	[ ] DD/DELETE)				
* CIL RETENTION	RATIONALE: (If ap	plicable) ADEQUATE INADEQUATE	[ X ]				
REMARKS: FAILURE TO START/STOP COULD RESULT IN LOSS OF CCTV AND MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.							

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8024G 2.4.3	BASELI N	NE [ ] NEW [ X ]
	COMM AND TRACK 8024 PAN AND TILT UNIT	TYC D POSITION	1)
LEAD ANALYST:	W.C. LONG		
ASSESSMENT:			e e e e e e e e e e e e e e e e e e e
DT TCII	ITY REDUNDANC		CIL ITEM
HDW/FU	NC A	В С	
NASA [ 2 /2 IOA [ 2 /1R	] [ p ] [	P ] [ P ]	[ X ] * [ X ]
COMPARE [ /N	] [N][	и] [и]	[ ]
RECOMMENDATIONS:	(If different f	rom NASA)	
[ 2 /1R	] [P] [	P ] [ P ]	[ ] (ADD/DELETE)
÷	RATIONALE: (If app	olicable) ADEQUAT INADEQUAT	re [ x ] re [ ]
LOSS OF ALL CAPA STOW AND MONITOR LOSS OF VEHICLE EXISTS VIA CREW	/STOP COULD RESULT BILITY TO PERFORM ING P/L BAY DOOR I AND CREW. UNLIKE WINDOW VIEWING, EV MS JETTISON TO ALL	CCTV FUNCTION CO ATCHES RESULTING CCTV REDUNDANCY A AND COAS FOR C	OULD PREVENT RMS F IN POSSIBLE CREW VISUAL

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	NASA DATA BASELINE NEW		
MDAC ID:	COMM AND TRACK 8024 PAN AND TILT UNI	T (TVC D POSITION)	a territoria participares.
LEAD ANALYST:	W.C. LONG		عدمها المعالم
ASSESSMENT:			
CRITICAL FLIGH	ITY REDUNDAN		CIL ITEM
HDW/FU	NC A	в с	, <del></del>
NASA [ 2 /2 IOA [ 2 /1R	] [ ] [ . ] [ P ] [	[ ] [ ] [ P ] [ P ]	[ X ] *
COMPARE [ /N	] [N]	[и] [и]	[ ]
RECOMMENDATIONS:	(If different	from NASA)	
[ 2 /1R	[P]	[P] [P] (A	[ ] DD/DELETE)
	RATIONALE: (If ag	oplicable) ADEQUATE INADEQUATE	[ X ]
LOSS OF ALL CAPA STOW AND MONITOR LOSS OF VEHICLE EXISTS VIA CREW	BILITY TO PERFORM ING P/L BAY DOOR AND CREW. UNLIKE WINDOW VIEWING, E	LT IN LOSS OF CCTV A 1 CCTV FUNCTION COUL LATCHES RESULTING I E CCTV REDUNDANCY EVA AND COAS FOR CRE LLOW P/L BAY DOOR CL	D PREVENT RMS N POSSIBLE W VISUAL

ASSESSME ASSESSME NASA FME	NT	I				802	24I						ASA 1 BASE		[			
SUBSYSTE MDAC ID: ITEM:				COMM A				•		(TVC				ON)		7 = 0		
LEAD ANA	LY	ST	:	W.C.	LOI	NG							** 7		:			
ASSESSME	NT	:																
		F	ICAL LIGH W/FU			RI A	EDUNI	DAN	CY B	SCR	EEN	s c			C]	IL PEN	ſ	
NASA IOA	[	3 2	/3 /1R	]	[	P	]	]	P	]	[	P	]		[	x	]	*
COMPARE	[	N	/N	]	[	N	]	[	N	]	[	N	]		[	N	]	
RECOMMEN	DA'	ΓI	ons:	(If	<b>d</b> :	if	fere	nt	fr	om Ni	ASA)	)						
	[		1.	]	[		]	[		]	Ĺ		]	(A	[ DD/	'DE	] ELE	TE)
* CIL RE	TE:	NT	ION I	RATION	AL	Ε:	(If	ap	pl:	icab:			DEQUA		[		]	
REMARKS: ONLY WOR	ST	C		CONDIT		N V	VAS I	ANA	LY	SED.			:		*			·

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8025	NASA DATA BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8025 PAN AND TILT UNI	T (TVC D POSITION)	
LEAD ANALYST:	W.C. LONG		# · * *·
ASSESSMENT:			
CRITICAL FLIGHT	TY REDUNDAN	CY SCREENS	CIL ITEM
	NC A	ВС	<del>-</del>
NASA [ 2 /2 IOA [ 2 /1R	] [ ] [ ] [ P ] [	P ] [ p ]	[ X ] *
COMPARE [ /N	] [N][	N ] [ N ]	[ ]
RECOMMENDATIONS:	(If different	from NASA)	
[ 2 /1R	] [P] [	P ] [ P ] (A	[ ] .DD/DELETE)
	RATIONALE: (If ap	plicable) ADEQUATE INADEQUATE	[ X ]
MISSION. LOSS OF PREVENT RMS STOWN POSSIBLE LOSS OF EXISTS VIA CREW	F ALL CAPABILITY AND MONITORING P VEHICLE AND CREW WINDOW VIEWING, E	ULD RESULT IN LOSS TO PERFORM CCTV FUN /L BAY DOOR LATCHES . UNLIKE CCTV REDU VA AND COAS FOR CRE LOW P/L BAY DOOR CI	CTION COULD RESULTING IN ROBERT OF THE COURT

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8025A 2.2.7	NASA DATA COMTRK-8025A BASELINE 2.2.7 NEW								
SUBSYSTEM: MDAC ID:	COMM AND TRACK 8025	T (TVC D POSITION)								
LEAD ANALYST:	W.C. LONG									
ASSESSMENT:										
	ITY REDUNDANC		CIL ITEM							
FLIGH HDW/FU	NC A	B C								
NASA [ 2 /2 IOA [ 2 /1R	] [ ] [ ] [ P ] [	] [ ] P ] [ p ]	[ X ] * [ X ]							
COMPARE [ /N	) [ N ] [	и ј [и]	[ ]							
RECOMMENDATIONS:	(If different 1	from NASA)								
[ 2 /1R	[P] [	P ] [ P ] (AD	[ ] D/DELETE)							
* CIL RETENTION	RATIONALE: (If app	plicable) ADEQUATE INADEQUATE	[ X ]							
MISSION. LOSS OF PREVENT RMS STOW POSSIBLE LOSS OF EXISTS VIA CREW	F ALL CAPABILITY TO AND MONITORING PARTICLE AND CREW WINDOW VIEWING, EVENTS JETTISON TO ALL	ULD RESULT IN LOSS OF PERFORM CCTV FUNCTO IN LOSS OF THE PERFORM CCTV REDUNCTION OF THE PERFORMENT OF THE PERFORMENT OF THE PAY DOOR CLO	OF CCTV AND TION COULD RESULTING IN DANCY VISUAL							

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:		NEW	[ x ]
MDAC ID:	8025	T (TVC D POSITION)	Marine Burgara (1994)
LEAD ANALYST:	W.C. LONG		
ASSESSMENT:			
FLIGH	ITY REDUNDAN		CIL ITEM
HDW/FU	NC A	ВС	
NASA [ 2 /2 IOA [ 2 /1R	[ ] [ ] [ [ P ] [	p ] [ p ]	[ X ] *
COMPARE [ /N	] [N][	N ] [N]	[ ]
RECOMMENDATIONS:	(If different	from NASA)	
[ 2 /1R	[P] [	P ] [ P ] (A	[ ] ADD/DELETE)
* CIL RETENTION	RATIONALE: (If ap	plicable) ADEQUATE INADEQUATE	
MISSION. LOSS OF PREVENT RMS STOWN POSSIBLE LOSS OF EXISTS VIA CREW	F ALL CAPABILITY AND MONITORING P VEHICLE AND CREW WINDOW VIEWING, E	ULD RESULT IN LOSS TO PERFORM CCTV FUN /L BAY DOOR LATCHES . UNLIKE CCTV REDU VA AND COAS FOR CRE LOW P/L BAY DOOR CI	ICTION COULD S RESULTING IN UNDANCY W VISUAL

ASSESSMENT DATE: 3/05/88 ASSESSMENT ID: COMTRK-8025C NASA FMEA #: 2.4.1.1													ASA DA BASELI		ſ	x	]			
SUBSYSTE MDAC ID:					80	25				ACK UNI	r	 (TV	C D	PO	SITION	1)				
LEAD ANA	LY	ST	:		W.	c.	LO	NG												
ASSESSME	NT	:																		
	CR		ICA					R	EDU	UNDAN	CY	sc	REEN	S				[L	-	
	1	F. HDI	LIC W/F	UV	iC			A			В			С			1.1	rem	į.	
NASA IOA	[	2 2	/2 /1	e LR	]		[	P	]	[	P	]	[	p	]		]	X X	]	*
COMPARE	[		/N	ī	]		[	N	]	[	N	]	[	N	]		[		]	
RECOMMEN	'DA'	ΓI	эис	<b>:</b>		(If	đ	if	fer	rent	fro	om :	NASA	.)						
	(	2	/1	.R	]		[	P	]	[	P	]	(	P	J	(AI		/DE		TE)
* CIL RE	TE	NT:	ION	IR	ľÆ	'ION	IAL	E:	(1	If ap	pl:	ica			DEQUAT DEQUAT	E E	[	x	]	
REMARKS:													_	4142	DUZOM		L		1	
ERRATIC/	יאד	וידיד	RMT	. фц	אבי	יייו	PF.	RA	rt <i>c</i>	א כסי	JT.T	) B.	ESIIT	T	IN LOS	s	F	CC	ידיני	AND
MISSION.																				
PREVENT																				
POSSIBLE																				
EXISTS V	IA	CI	REW	T W	IN	DOW	V	ΙE	WIN	NG, E	VΑ	AN	D CO	AS	FOR C	REV	V	7IS	UA	
INSPECTI							TI	SO	ר ת	O AL	LOV	V P	/L B	ΑY	DOOR	CLC	SU	JRE	•	WORST
CASE CON	ידמ	TTO	NC.																	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8 2.4.1.2	8025D	NASA DATA: BASELINE [ ] NEW [ X ]							
SUBSYSTEM: MDAC ID: ITEM:	COMM AND 8025 PAN AND	D TRACK TILT UNI	T (TVC I	POSITION)	-					
LEAD ANALYST:	W.C. LOI	NG								
ASSESSMENT:										
FLIGH		REDUNDAN	CY SCREE	ens C	CIL ITEM					
NASA [ 2 /2 IOA [ 2 /1R	] [	P ] [	] P ]	[ ] [ <b>g</b> ]	[ X ] *					
COMPARE [ /N	] [	и ј [	N ]	[ N ]	[ ]					
RECOMMENDATIONS:	(If d	ifferent	from NAS	SA)						
[ 2 /1R	] [	P ] [	P ]	[ P ] (A	[ ] DD/DELETE)					
* CIL RETENTION	RATIONALI	E: (If ap	plicable	ADEQUATE						
REMARKS: ERRATIC/INTERMIT MISSION. LOSS O PREVENT RMS STOW POSSIBLE LOSS OF EXISTS VIA CREW	F ALL CAN AND MONI VEHICLE WINDOW VI	PABILITY ITORING F AND CREW IEWING, E	TO PERFO P/L BAY I UNLIF VA AND O	ORM CCTV FUNDOOR LATCHES KE CCTV REDUCTORS FOR CRE	CTION COULD RESULTING IN NDANCY W VISUAL					
INSPECTION AND R CASE CONDITION.	MS JETTIS	SON TO AI	LOW P/L	BAY DOOR CL	OSURE. WORST					

NASA DATA:

ASSESSMENT DATE: 3/05/8 ASSESSMENT ID: COMTRE NASA FMEA #: 2.4.2.							302	25E							DATA: LINE NEW	Ĺ	x	]		
SUBSYSTEMDAC ID:				CC 80 PA	MM A 25 N AN	ND NI	ניני ניני	rac LT	CK UNIT	C (	(TV	C D 1		SITI						
LEAD ANA	LY	ST	:	W.	c. 1	COI	NG													
ASSESSME	ENT	:															-			1
	CR						RI	EDUI	NADAN	CY	sc	REEN	5				L			
	:		LIGH W/FU				A			В			С					•		
NASA IOA	[	2 2	/2 /1R	]		[	P	]	[ [	P	]	[	р	]		[	X X	]	*	
COMPARE	[		/N	]		[	N	]	[	N	]	[	N	]		[		]		
RECOMME	NDA	TI	ons:		(If	<b>d</b> :	if	fer	ent :	fr	om	NASA	)							
	[	2	/1R	]		[	P	]	[	P	]	[	P	]	(AI	[ /dc	/DE	] ELE	CTE	:)
* CIL RI	ETE	NT:	ION	RAT	TION	AL	E:	(I	f ap	pl:	ica		A	DEQU DEQU	ATE ATE	[	X	]		
REMARKS ERRATIC, MISSION PREVENT POSSIBLE EXISTS INSPECT CASE CO	· RM E L VIA ION	LO S OS C	SS O STOW S OF REW ND R	F A Al VI WTI	ALL (	CA ON LE V	PA IT( A) IE(	BIL ORI ND WIN	ITY ' NG P, CREW G. E'	TO /L · VA	PE BA UN AN	RFOR Y DO LIKE ID CO	M OR C AS	LAT CTV FOR	FUNC CHES REDUI	RI NDA V	ion Est anc Vis	TY SUZ	COL CIN	IG II

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:		5 <b>F</b>	NASA DATA BASELINE NEW					
SUBSYSTEM: MDAC ID: ITEM:	COMM AND THE 8025 PAN AND TIE	RACK LT UNIT (TVC D	POSITION)	r en e es				
LEAD ANALYST:	W.C. LONG							
ASSESSMENT:								
CRITICAL		DUNDANCY SCREEN	is	CIL ITEM				
FLIGH HDW/FU		В	С	TIEM				
NASA [ 2 /2 IOA [ 2 /1R	] [ P	] [ ] [ ] [ P ] [	[ ] [ p ]	[ X ] *				
COMPARE [ /N	] [ N	] [и] [	[ N ]	[ ]				
RECOMMENDATIONS:	•	erent from NASA						
[ 2 /1R	[ P	] [P] [	[P] (A)	DD/DELETE)				
* CIL RETENTION	RATIONALE:		ADEQUATE	[ X ] [ ]				
REMARKS: ERRATIC/INTERMIT MISSION. LOSS O PREVENT RMS STOW	F ALL CAPAB	SILITY TO PERFOR	RM CCTV FUN	CTION COULD				

CASE CONDITION.

POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY

EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST

ASSESSME ASSESSME NASA FME	44	•														•		-	
SUBSYSTE MDAC ID: ITEM:				80	25										SITION)		· .	-	· · · · ·
LEAD ANA	LYS	SŤ:	:	W.	c. I	,O1	1G												
ASSESSME	NT	:																	
		FI	LTGH	T	ľ								NS	c		C:	IL PEN		
														_					
NASA IOA	[	2	/2 /1R	]		[	P	]	[	P	]		[	p	]	]	X	]	*
COMPARE	ſ		/N	]		[	N	]	[	N	]		[	N	]	[		]	
RECOMMEN	DA:	ric	ONS:		(If	d:	ifi	fere	nt :	fro	om	NAS.	A)	i					
	[	2	/1F	]		[	P	]	[	P	]		[	P	] (A	DD,			ETE)
* CIL RE		T	ION	RAT	IONA	L	E:	(If	apı	pl:	ica			ΑI	DEQUATE DEQUATE				
REMARKS: ERRATIC/ MISSION. PREVENT POSSIBLE EXISTS V INSPECTI CASE CON	RM: LAVIA	LOS S S OSS CI Al	SS C STOW S OF REW ND F	F A Al VI WII	ALL C	N E V	PAI TT AI IEV	BILITORING ND CI NING	CY : S P, REW . E'	ro /L · VA	PE BA UN AN	ERFO LY D LLIK ID C	RN OC E OZ	I ( )R C( AS	CTV FUN LATCHES TV REDU FOR CRE	CT RI ND W	ION ESU ANO VIS	ILI ILI ILI	COULD FING IN

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8026		NASA DATA BASELINI NEV	
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRA 8026 PAN AND TILT		ELBOW TVC PO	OSITION)
LEAD ANALYST:	W.C. LONG			
ASSESSMENT:				
CRITICAI FLIGH		NDANCY SCRI	EENS	CIL ITEM
HDW/FU	NC A	В	С	
NASA [ 2 /1F IOA [ 3 /2F	[P]	[ P ] [ P ]	[ P ] [ P ]	[ X ] *
COMPARE [ N /N	] [ ]	[ ]	[ ]	[ N ]
RECOMMENDATIONS:	(If differ	ent from N	ASA)	
[ /	] [ ]	[ ]	[ ]	[ ] ADD/DELETE)
* CIL RETENTION	RATIONALE: (I	f applicab	le) ADEQUATE INADEQUATE	
REMARKS: PHYSICAL BINDING TVC OUTPUT COULD TVC NOT USED TO PARTIAL REDUNDAN REDUNDANCY EXIST VISUAL INSPECTIO COULD RESULT IN DETERMINED TO BE	O RESULT IN REMONITOR CRITINGS FOR MISSICES VIA CREW WITH CAPABLICS OF MISSICES	DUCED MISS CAL FUNCTION ON SUPPORT. INDOW VIEWED SILITY TO PERSON. MECHA	ION EFFECTIVE ONS AND WRIS' UNLIKE NG, EVA AND O ERFORM ELBOW	ENESS. ELBOW I TVC PROVIDES COAS FOR CREW TVC FUNCTION

ASSESSMENT DATE: 3/05/88 ASSESSMENT ID: COMTRK-8026A NASA FMEA #: 4.4.1.2											BASEL	ATA INE NEW	[		]					
SUBSYSTEMDAC ID:				80	26				ACK TUNI						POS	SI	rI:	ON	)	
LEAD ANA	LY	ST	:	W.	<b>c.</b>	LO	NG													
ASSESSME			<u>-</u> .																	
	CR				7		R	EDU	JNDAN	CY	sc	REEN	S			C	L L			
	:		LIGH W/FU				A			В			С			1.	L'IE.	м		
NASA IOA	[	2	/1R /2R	]		]	P P	]	]	P P	]	[	P p	]		]	X	]	*	
COMPARE	[	N	/N	]		ſ		]	[		]	. [		]		[	N	]		
RECOMMEN	IDA'	TI	ONS:		(If	đ	if:	fer	rent	fr	om	nasa)	)							
	[		/	]		[	-	]	[		]	[		]				ELI	ETE;	)
* CIL RE		NT:	ION 1	RAT	'ION	AL	E:	(I	[f ap	pl:	ica	-	ΑI	DEQUA DEQUA			x	]		
REMARKS: PHYSICAL TVC OUTE TVC NOT PARTIAL REDUNDAN VISUAL	US US RE ICY	ED DUI E: PE	OULD TO 1 NDANG XISTS CTION	RE 10N CY S V	SUL' ITO FOR IA AL	T : R ( M: CR: L (	IN CR: IS: EW CA:	RE ITI SIC WI PAE	EDUCE CAL ON SU INDOW BILIT	D I FUI PP( V: Y !	MIS NCT ORT IEW FO	SION IONS . UI ING, PERFO	EI IA LIN VE VIRC	FFECT ND WR KE VA AN N ELB	IVEN IST D CO	YES TY OAS OVO	SS 7C	PI FOI FUN	ELI ROVI R CI NCTI	BOW IDES REW ION
COULD DE	1125	T.T	TN 1	$\Omega$	S O	F 1	MT	3ST	ON.	M	<b>FCH</b>	ANTC	ΔT.	TNTE	PFFF	₹F,	C	F. V	ZAN	NO

DETERMINED TO BE A FACTOR IN RMS STOW.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-802	26B	NASA DATA: BASELINE NEW			
SUBSYSTEM: MDAC ID: ITEM:	8026	TRACK ILT UNIT (RMS EI	LBOW TVC POS	SITION)		
LEAD ANALYST:	W.C. LONG					
ASSESSMENT:						
FLIGH'	r	EDUNDANCY SCREEN		CIL ITEM		
HDW/FU	NC A	В	С			
NASA [ 2 /1R IOA [ 3 /2R	] [ P ] [ P	] [P]	[ P ] [ P ]	[ X ] * [ ]		
COMPARE [ N /N	] [	] [ ]	[ ]	[ N ]		
RECOMMENDATIONS:	(If diff	ferent from NASA	A)			
	] [	] [ ]		[ ] DD/DELETE)		
* CIL RETENTION	RATIONALE:		) ADEQUATE INADEQUATE			
REMARKS: PHYSICAL BINDING TVC OUTPUT COULD TVC NOT USED TO PARTIAL REDUNDAN REDUNDANCY EXIST VISUAL INSPECTIO COULD RESULT IN	RESULT IN MONITOR CRI CY FOR MISS S VIA CREW N. ALL CAI LOSS OF MIS	REDUCED MISSION ITICAL FUNCTIONS SION SUPPORT. V WINDOW VIEWING PABILITY TO PERS SSION. MECHANIC	N EFFECTIVEN S AND WRIST UNLIKE , EVA AND CO FORM ELBOW T	VESS. ELBOW TVC PROVIDES  DAS FOR CREW TVC FUNCTION		

ASSESSMENT DA ASSESSMENT II NASA FMEA #:	ATE:	3/05/8 COMTRI 4.4.2	OMTRK-8026C					NASA DATA: BASELINE [ ] NEW [ X ]						
SUBSYSTEM: MDAC ID: ITEM:		8026					IT (RMS ELBOW TVC POSITION)							
LEAD ANALYST	:	W.C. 1	I.C. LONG											
ASSESSMENT:											. 3	: -	177 :	m itani.
	ITY		RI	EDUNDA	NCA	? :	SCREEN	NS			CIL ITEM			
	T NC A			В			(	3	_	<b>-</b> -				
NASA [ 2 IOA [ 3	/1R /2R	]	[	P P	.]	[ I	>	] [	[ ] [ ]	? ] ? ]	[	X	]	*
COMPARE [ N	/N	]	[		]	[		) (	[	]	[	N	]	
RECOMMENDATIO	ons:	(If	d:	Ĺfí	ferent	fi	<b>:</b> 01	m NAS!	A)					
[	/	]	[		]	[		] [	[	] (2		/DI		ETE)
* CIL RETENT	ION :	RATION	ALI	Ξ:	(If a	app]	۱i		2	ADEQUATE	[	x	]	
REMARKS: PHYSICAL BING TVC OUTPUT CO TVC NOT USED PARTIAL REDUIT REDUNDANCY EX VISUAL INSPECTOULD RESULT DETERMINED TO	OULD TO NDAN XIST CTIO	RESUL' MONITO CY FOR S VIA N. AL LOSS O	r : R ( M: CRI CRI L (	IN ISS EW CAI	REDUC ITICAL SION S WINDO PABIL SSION	CED FU SUPI OW V CTY	M IN PO II TO	LOSS CISSION CTIONS RT. CEWING, O PERICHANIC	OF N I S A JNI , I	TVC OUTE EFFECTIVE AND WRIST LIKE EVA AND C RM ELBOW	PUT NE TOA	SS. VC	LC PH FOR	ELBOW ROVIDES R CREW RCTION

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8	3026D	NASA DATA: BASELINE [ ] NEW [ X ]					
SUBSYSTEM: MDAC ID: ITEM:	8026		RMS ELBOW	TVC POSITIO	N)			
LEAD ANALYST:	W.C. LON	NG						
ASSESSMENT:								
CRITICAL FLIGH		REDUNDANC	Y SCREENS	CIL				
HDW/FU		A	ВС	<b>4-2</b>				
NASA [ 2 /1R IOA [ 3 /2R	] [	P ] [ P ] [	P ] [ P P ] [ p	] [ x	] *			
COMPARE [ N /N	] [	] [	] [	] [ N	]			
RECOMMENDATIONS:	(If d	ifferent i	from NASA)					
ι /	] [	] [	] [	] [ (ADD/DE				
* CIL RETENTION	RATIONAL	E: (If app	AI	DEQUATE [ X DEQUATE [	]			
REMARKS: PHYSICAL BINDING/JAMMING RESULTS IN LOSS OF TVC OUTPUT. LOSS OF TVC OUTPUT COULD RESULT IN REDUCED MISSION EFFECTIVENESS. ELBOW TVC NOT USED TO MONITOR CRITICAL FUNCTIONS AND WRIST TVC PROVIDES PARTIAL REDUNDANCY FOR MISSION SUPPORT. UNLIKE REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION. ALL CAPABILITY TO PERFORM ELBOW TVC FUNCTION								

COULD RESULT IN LOSS OF MISSION. MECHANICAL INTERFERENCE WAS NOT

DETERMINED TO BE A FACTOR IN RMS STOW.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:		NASA DATA: BASELINE [ ] NEW [ X ]					
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACE 8027 PAN AND TILT U	ONIT (RMS ELBOW TVO	C POSITION)				
LEAD ANALYST:	W.C. LONG						
ASSESSMENT:		:	. <del></del>				
CRITICAI FLIGH		DANCY SCREENS	CIL ITEM				
	INC A	ВС	T T TILL				
NASA [ 2 /1F IOA [ 3 /2F		[ P ] [ P ] [ P ] [ P ]	[ X ] *				
COMPARE [ N /N	] [ ]	[ ] [ ]	[ N ]				
RECOMMENDATIONS:	(If differer	nt from NASA)					
, [ /	] [ ]	[ ] [ ]	[ ] (ADD/DELETE)				
* CIL RETENTION	RATIONALE: (If		ATE [ X ] ATE [ ]				
OUTPUT COULD RES NOT USED TO MONI PARTIAL REDUNDAN REDUNDANCY EXIST VISUAL INSPECTION	TULT IN REDUCED TOR CRITICAL FURTHER TO THE TOR MISSION OF THE TORS OF MISSION LOSS OF MISSION	OOW VIEWING, EVA AN LITY TO PERFORM ELE L. MECHANICAL INTE	TVC PROVIDES  ID COAS FOR CREW BOW TVC FUNCTION				

NASA DATA:

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8027A	:	NASA DATA: BASELINE [ ] NEW [ X ]					
MDAC ID:	COMM AND TRACE 8027 PAN AND TILT U		OW TVC POS	OSITION)				
LEAD ANALYST:	W.C. LONG							
ASSESSMENT:								
CRITICAL FLIGH		DANCY SCREENS		CIL ITEM				
HDW/FU		В	С					
NASA [ 2 /1R IOA [ 3 /2R	[ P ] [ P ]	[ P ] [ [ P ] [	P] p]	[ X ] *				
COMPARE [ N /N	] [ ]		]	[ N ]				
RECOMMENDATIONS:	(If differen	nt from NASA)						
/	] [ ]	[ ] [	] (A	[ ] DD/DELETE)				
* CIL RETENTION	RATIONALE: (If	applicable)	ADEQUATE ADEQUATE	[ X ]				
REMARKS: PTU FAILURE TO M OUTPUT COULD RES NOT USED TO MONI PARTIAL REDUNDAN REDUNDANCY EXIST VISUAL INSPECTIO COULD RESULT IN DETERMINED TO BE	ULT IN REDUCED TOR CRITICAL FUNCTION OF THE PROPERTY OF MISSION OF WIND ON THE PROPERTY OF MISSION	MISSION EFFE JNCTIONS AND SUPPORT. UN DOW VIEWING, LITY TO PERFO N. MECHANICA	CTIVENESS WRIST TVC LIKE EVA AND C RM ELBOW	PROVIDES  OAS FOR CREW TVC FUNCTION				

NASA DATA:

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8027B 4.3.7		NASA DATA: BASELINE [ ] NEW [ X ]						
	COMM AND TRACK 8027 PAN AND TILT U			SITION)					
LEAD ANALYST:	W.C. LONG								
ASSESSMENT:									
FLIGH			ns C	CIL ITEM					
HDW/FU		В							
NASA [ 2 /1R IOA [ 3 /2R	] [ P ] ] [ P ]	[ P ] [ P ]	[ P ] [ p ]	[ X ] * [ ]					
COMPARE [ N /N	] [ ]	[ ]	[ ]	[ N ]					
RECOMMENDATIONS:	(If differen	nt from NAS	A)	•					
[ /	1 [ ]	[ ]	[ ] (A	[ ] DD/DELETE)					
* CIL RETENTION	RATIONALE: (If		) ADEQUATE INADEQUATE						
REMARKS: PTU FAILURE TO M OUTPUT COULD RES NOT USED TO MONI PARTIAL REDUNDAN REDUNDANCY EXIST VISUAL INSPECTIO COULD RESULT IN DETERMINED TO BE	ULT IN REDUCED TOR CRITICAL FU CY FOR MISSION S VIA CREW WINI N. ALL CAPABII LOSS OF MISSION	MISSION EF UNCTIONS AN SUPPORT. OW VIEWING LITY TO PER MECHANI	FECTIVENESS D WRIST TVC UNLIKE , EVA AND C FORM ELBOW	. ELBOW TVC PROVIDES  OAS FOR CREW TVC FUNCTION					

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8027C 4.4.4.2		NASA DATA: BASELINE [ ] NEW [ X ]					
SUBSYSTEM: MDAC ID: ITEM:			OW TVC POS	SITION)				
LEAD ANALYST:	W.C. LONG							
ASSESSMENT:								
CRITICAL FLIGH	ITY REDUNI	DANCY SCREENS		CIL ITEM				
HDW/FU	INC A	В	C					
NASA [ 2 /1R IOA [ 3 /2R	[ P ] [ P ]	[ P ] [ ]	P] P]	[ X ] *				
COMPARE [ N /N	] [ ]	[ ] [	1	[ N ]				
RECOMMENDATIONS:	(If differer	nt from NASA)						
[ /	] [ ]	[ ] [	] (Al	[ ] DD/DELETE)				
* CIL RETENTION	RATIONALE: (If		ADEQUATE ADEQUATE					
REMARKS: PTU FAILURE TO MOVE RESULTS IN LOSS OF TVC OUTPUT. LOSS OF TVC OUTPUT COULD RESULT IN REDUCED MISSION EFFECTIVENESS. ELBOW TVC NOT USED TO MONITOR CRITICAL FUNCTIONS AND WRIST TVC PROVIDES PARTIAL REDUNDANCY FOR MISSION SUPPORT. UNLIKE REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION. ALL CAPABILITY TO PERFORM ELBOW TVC FUNCTION COULD RESULT IN LOSS OF MISSION. MECHANICAL INTERFERENCE WAS NOT DETERMINED TO BE A FACTOR IN RMS STOW.								

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8027D	NASA BASE	NASA DATA: BASELINE [ ] NEW [ X ]					
MDAC ID.	COMM AND TRACK 8027 PAN AND TILT UN	IIT (RMS ELBOW TV	C POSITION)					
LEAD ANALYST:	W.C. LONG							
ASSESSMENT:								
FLIGH	ITY REDUNDA	NCY SCREENS B C	CIL					
NASA [ 2 /1F IOA [ 3 /2F	[ P ] [ P ]	[ P ] [ P ] [ P ] [ p ]	[ X ] *					
COMPARE [ N /N	] [ ]	[ ] [ ]	[и]					
RECOMMENDATIONS:	(If different	from NASA)						
[ /	] [ ]	[ ] [ ]	[ ] (ADD/DELETE)					
* CIL RETENTION	RATIONALE: (If a	applicable) ADEQU INADEQU	ATE [ X ]					
OUTPUT COULD RES NOT USED TO MOND PARTIAL REDUNDAN REDUNDANCY EXIST VISUAL INSPECTION COULD RESULT IN	SULT IN REDUCED 1 ITOR CRITICAL FUI ICY FOR MISSION S IS VIA CREW WINDO	NCTIONS AND WRIST SUPPORT. UNLIKE OW VIEWING, EVA A ITY TO PERFORM EI . MECHANICAL INT	NESS. ELBOW TVC					

8 8 1 8 4 8 1 8 1 8 1 E. T

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8	8027E	. <b>N</b> .	ASA DATA: BASELINE [ NEW [	x ]			
	8027			W TVC POSIT				
LEAD ANALYST:	W.C. LO	NG						
ASSESSMENT:								
FLIGH			CY SCREENS B C	IT	L EM			
NASA [ 3 /3 IOA [ 3 /2R	] [	P ] [	p ] [ p	] [	] *			
COMPARE [ /N	] [	и ] [	N ] [ N	] [	]			
RECOMMENDATIONS:	•							
	] [	] [	] [	] [ (ADD/	] DELETE)			
* CIL RETENTION	RATIONAL	E: (If ap	plicable) A INA	DEQUATE [ DEQUATE [	]			
REDUNDANCY EXIST VISUAL INSPECTIO COULD RESULT IN	ADEQUATE [ ] INADEQUATE [ ] REMARKS: ONLY WORST CASE CONDITION WAS ANALYSED. REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION. ALL CAPABILITY TO PERFORM ELBOW TVC FUNCTION COULD RESULT IN LOSS OF MISSION. MECHANICAL INTERFERENCE WAS NOT DETERMINED TO BE A FACTOR IN RMS STOW.							

NASA DATA:

ASSESSMENT DATE: 3/05/88

ASSESSMENT ID: NASA FMEA #:	COMTRK-8 4.4.1.1	028	<del></del> -	BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	8028		RMS EL	BOW TVC POS	SITION)
LEAD ANALYST:	W.C. LON	r <b>G</b>	÷ .	1.00	55 <u>5</u> 5100
ASSESSMENT:					
		REDUNDANC	Y SCREEN	s	CIL ITEM
FLIGH HDW/FU	4C 1.	A	В	С	TIEM
NASA [ 2 /1R IOA [ 3 /2R	] [	P ] [	P ] [	p ]	[ X ] *
COMPARE [ N /N	] [	и ] [	и ] [	ן א	[ N ]
RECOMMENDATIONS:	(If di	.fferent f	rom NASA	)	
[ /	] [	] [	] [	] (Al	[ ] DD/DELETE)
* CIL RETENTION	RATIONALE	: (If app		ADEQUATE NADEQUATE	
REMARKS: ERRATIC/INTERMIT LOSS OF TVC OUTP	TANT OPER	RATION RES	ULTS IN	LOSS OF TVO	C OUTPUT. FFECTIVENESS.
ELBOW TVC NOT US	ED TO MON	IITOR CRIT	ICAL FUN	CTIONS AND	WRIST TVC
PROVIDES PARTIAL	REDUNDAN	ICY FOR MI	SSION SU	PPORT. UNI	LIKE
REDUNDANCY EXIST VISUAL INSPECTION	S VIA CRE	W WINDOW	VIEWING,	EVA AND CO	TAS FUR CREW
COULD RESULT IN	LOSS OF M	ISSION.	MECHANIC	AL INTERFE	RENCE WAS NOT
DETERMINED TO BE	A FACTOR	R IN RMS S	TOW.		

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8028A 4.4.1.2	NASA DATA: BASELINE [ ] NEW [ ]						
MDAC ID:	COMM AND TRACK 8028 PAN AND TILT UNIT	(RMS ELBOW TVC POS	SITION)					
LEAD ANALYST:	W.C. LONG							
ASSESSMENT:								
CRITICALI		Y SCREENS	CIL ITEM					
FLIGHT HDW/FUN		в с	11111					
NASA [ 2 /1R IOA [ 3 /2R	] [ ] [ ] [ P ] [	] [ ] P ] [ p ]	[ X ] *					
COMPARE [ N /N	] [ N ] [	и ] [и]	[ N ]					
RECOMMENDATIONS:	(If different f	from NASA)						
[ /	] [ ] [	] [ ] (A	[·] DD/DELETE)					
* CIL RETENTION F	RATIONALE: (If app	olicable) ADEQUATE INADEQUATE						
LOSS OF TVC OUTPU	IT COULD RESULT IN ED TO MONITOR CRIT REDUNDANCY FOR MI	SULTS IN LOSS OF TWO REDUCED MISSION ENTIRE TICAL FUNCTIONS AND ISSION SUPPORT. UNVIEWING, EVA AND C	FFECTIVENESS. WRIST TVC LIKE					

VISUAL INSPECTION. ALL CAPABILITY TO PERFORM ELBOW TVC FUNCTION COULD RESULT IN LOSS OF MISSION. MECHANICAL INTERFERENCE WAS NOT

DETERMINED TO BE A FACTOR IN RMS STOW.

ASSESSM ASSESSM NASA FM	ENT ENT EA	D: #:	ATE: D:	3/05 COMT 4.4.	3/05/88 NASA DATA: COMTRK-8028B BASELINE 4.4.2.1 NEW						]	].						
SUBSYST: MDAC ID ITEM:	EM:			8028	8028					VIT (RMS ELBOW TVC POS					SITI	ON)	)	
LEAD AN	ALY	ST	ST: W.C. LONG															
ASSESSMENT:																		
CRITICALIT FLIGHT					RI	EDUN	NDAN	CY	sc	REE	NS			CIL				
			W/FUI			A			В			С			111	n		
NASA IOA			/1R /2R	]	[	P	]	]	P	]		] q ]	]		[ X	]	*	
COMPARE	[	N	/N	]	[	N	]	[	N	]		[ N	]		[ N	]		
RECOMME	NDA	TI	ons:	(I	f d:	if	fere	ent :	fro	mc	NAS	A)						
			<b>/</b>	]	[		]	[		]	•	[	],	(A)	[ D/D	ELI	ETE)	
* CIL R	ETE	NT:	ION 1	RATIO	NAL	E:	(If	f ap	<b>91</b> :	ica	ble					-		
													DEQU <i>I</i> DEQU <i>I</i>					
REMARKS ERRATIC	-	me'	DMTM	ከአ ነጠ	ושמר	י א כי	ntor	ישם ז	2771	rme	TN	τ	22 A1	e m37/	2 011	זמית	יויו	
LOSS OF																		; .
ELBOW T	VC	NO	r US	ED TO	MOI	II.	ror	CRI	ri(	CAL	FU	NCT	IONS	AND	WRI	ST		
PROVIDE:																	CREW	J
VISUAL	INS	PE	CTIO	N. A	LL (	CAI	PABI	LIT	7	ro	PER	FOR	M ELI	BOW !	ľVC	FUN	1CTION	1
COULD R											ANI	CAL	INT	ERFE	RENC	E V	VAS NO	T(
DETEKUT	KED	Τ.		A PA	CIOI	Α.	rt4 t	י כונים	) T (	JW .								

<del></del>	3/05/88 COMTRK-802 4.4.2.2	28C		NASA DATA BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TO 8028 PAN AND TO		(RMS	ELBOW TVC PO	SITION)
LEAD ANALYST:	W.C. LONG				
ASSESSMENT:					
CRITICAL FLIGH	r	EDUNDANC	Y SCRE	ENS C	CIL ITEM
HDW/FU	NC A		Ь	C	
NASA [ 2 /1R IOA [ 3 /2R	] [ ] [ P	] [	] P ]	[ p ]	[ X ] * [ ]
COMPARE [ N /N	] [ N	] [	N ]	[ א ]	[ N ]
RECOMMENDATIONS:	(If dif	ferent f	rom NA	SA)	
[ /	] [	] [	]	[ ]	[ ] ADD/DELETE)
* CIL RETENTION	RATIONALE:	(If app	licabl	e) ADEQUATE INADEQUATE	[ X ]
REMARKS: ERRATIC/INTERMIT	TANT OPERA	TION RES	ULTS I	N LOSS OF TV	C OUTPUT.

LOSS OF TVC OUTPUT COULD RESULT IN REDUCED MISSION EFFECTIVENESS. ELBOW TVC NOT USED TO MONITOR CRITICAL FUNCTIONS AND WRIST TVC PROVIDES PARTIAL REDUNDANCY FOR MISSION SUPPORT. UNLIKE REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION. ALL CAPABILITY TO PERFORM ELBOW TVC FUNCTION COULD RESULT IN LOSS OF MISSION. MECHANICAL INTERFERENCE WAS NOT DETERMINED TO BE A FACTOR IN RMS STOW.

NASA DATA:

ASSESSMENT DATE: 3/05/88

ASSESSMENT ID: NASA FMEA #:		1	NEW [	
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8028 PAN AND TILT UN	•		• •
LEAD ANALYST:	W.C. LONG		<u>-</u> :	. #3 H .
ASSESSMENT:				
FLIGH	ITY REDUNDA I NC A		ITE	
NASA [ 2 /1R IOA [ 3 /2R	] [ ] ]	[ ] [ p	] [ 2	( ] * ]
COMPARE [ N /N	ј пј	[и] [и	] [ ]	1 ]
RECOMMENDATIONS:	(If different	from NASA)		
1	] [ ]		] [ (ADD/I	] DELETE)
* CIL RETENTION	RATIONALE: (If a	AI	DEQUATE [ ) DEQUATE [	<b>(</b> ]
REMARKS: ERRATIC/INTERMIT LOSS OF TVC OUTP ELBOW TVC NOT US PROVIDES PARTIAL REDUNDANCY EXIST VISUAL INSPECTION COULD RESULT IN	UT COULD RESULT ED TO MONITOR CR REDUNDANCY FOR S S VIA CREW WINDO N. ALL CAPABILI	IN REDUCED MI ITICAL FUNCTI MISSION SUPPO W VIEWING, EV IY TO PERFORM	SSION EFFECTIONS AND WRITE UNLIKE VA AND COAS I ELBOW TVC	CTIVENESS. ST TVC FOR CREW FUNCTION

DETERMINED TO BE A FACTOR IN RMS STOW.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-802	29		NASA BASE	DATA: LINE [ NEW [	x ]
<del></del>	COMM AND 5		ASSEMBLY	Y (FLT D	ECK TVC	)
LEAD ANALYST:	W.C. LONG					
ASSESSMENT:						
CRITICAL: FLIGH		EDUNDANG	CY SCRE	ENS	CI IT	
HDW/FU			В	С	11.	M4.1
NASA [ 3 /3 IOA [ 3 /3	] [	] [	]	[ ]	] [	] *
COMPARE [ /	j [	] [	]	[ ]	[	]
RECOMMENDATIONS:	(If dif	ferent i	from NA	SA)		
\ 1	1 . [	] [	]	[ ]		] DELETE
* CIL RETENTION	RATIONALE:	(If app	plicable	ADEQU	ATE [	хj
REMARKS: LOSS OF OUTPUT WO			MODE C		ATE [	•

ASSESSME ASSESSME NASA FME	NT :	ID:		RK-80				<u>Ì</u>		DATA: LINE NEW			
SUBSYSTE MDAC ID: ITEM:	M:		8029	I AND '				SLY (I		еск т	VC)		
LEAD ANA	LYS'	r:	W.C.	LONG				-					
ASSESSME	NT:												
		TICAI FLIGH	IT			IDANCY					CIL ITE		
	H	DW/FU	INC	A		E	3	(	3		-		
NASA IOA	[	3 /3 3 /3	]	[	]	[	]	נ נ	]		[ [	]	*
COMPARE	[	/	]	[	3	[	]	[	]		[	]	
RECOMMEN	DAT	IONS:	: (1	f dif	fere	ent fr	om N	IASA)					
1	[	. /	]	[	]	(	]	[	]	(AD	[ D/D	] ELE	TE)
* CIL RE		TION	RATIO	ONALE:	(If	appl	licab	7	ADEQU ADEQU		( x	; ] ]	
REMARKS:	OUT					URE N	ODE	COVE	RS AL	L FUN	CTI	ONS	•

ASSESSME ASSESSME NASA FME	NT DAT NT ID: A #:	PE:	3/05/88 COMTRK- 3.1.6.4	/05/88 NASA DATA: OMTRK-8029B BASELINE [							]	
SUBSYSTEMDAC ID:			COMM AI 8029 MONOCHI			ass	EMBL	(FI	LT DECK	TVC)		
LEAD ANA	LYST:	1	W.C. L	ONG								
ASSESSME	NT:											
			TY	RE	DUNDA	NCA	SCRE	ens		CIL		
		GHT FUN		A		В		С		4.11	r1	
NASA IOA	[ 3 /	/3 /3	]	[	]	[	]	[ [	]	] [	]	*
COMPARE	[ /	/	]	[	]	[	]	[	]	[	]	
RECOMMEN	DATION	NS:	(If	diff	erent	fro	om NAS	SA)				
		/	]	Ţ	]	[	]	ţ	1 . (2	[ ADD/D	] ELE	TE)
* CIL RE	TENTIC	ON R	ATIONA	LE:	(If a	appl:	icable	Al	DEQUATE DEQUATE		: ] ]	
REMARKS: LOSS OF CRITICAL	OUTPUT					RE MO	DDE C			-	ONS	;.

ASSESSME ASSESSME NASA FME	NT NT A	D2 I1 #:	ATE: D:	3/0 COM 3.1	5/88 TRK-803 .6.2	30			Ŋ	IASA BASE	LINE		_
SUBSYSTE MDAC ID: ITEM:				803				SEME	BLY (I	rLT D	ECK	TVC)	
LEAD ANA	LY	ST	:	W.C	. LONG				1.0				
ASSESSME	NT	:											
	CR:				RI	EDUI	NDANCY	SCI	REENS			CII	
	1	_	LIGH W/FU	T NC	A		E	3	C	2		TIE	M
NASA IOA	[	3	/3	]	[	]	[	]	[	]		[	
COMPARE	[	N	/N	]	E	]	[	]	[	]		[	]
RECOMMEN	DA!	ri	ons:	(	If dif	fer	ent fr	om i	NASA)			-	
	[		/	]	[	]	ľ	]	.[	)	(A	[ DD/I	] DELETE)
* CIL RE	TE	NT:	ION	RATI	ONALE:	<b>(I</b> :	f appl	.icak	7	ADEQU ADEQU			]
REMARKS: PHYSICAL FUNCTION	B	IN	DING CRIT	/JAM	MING RI	ESU:	LTS IN AGREEM	WOI ENT.	RST CA	ASE L	oss	OF C	CCTV

ASSESSME ASSESSME NASA FME	NT ID:		K-80:	31				NASA DA BASELI N		[	]	
SUBSYSTE MDAC ID:		COMM A 8031 MONOCH				SEMBL	У (	MID DEC	K I	TVC)		
LEAD ANA	LYST:	W.C. I	LONG				÷					
ASSESSME	NT:											
	CRITICAL		R	EDUND.	ANCY	SCRE	ENS	5		CIL		
	FLIGH HDW/FU		A		В			С		TIE	1	
NASA IOA	[ 3 /3	]	[	]	[	]	[	]		[	]	*
COMPARE	[ N /N	]	[	]	[	]	[	. ]		[	]	
RECOMMEN	DATIONS:	(If	dif	feren	t fr	om NA	SA)	1				
	[ /	]	[	]	[	] .	[	]	(AI	[ DD/D		ETE)
* CIL RE	TENTION	RATION	ALE:	(If	appl	icabl	-	ADEQUAT LAUQUAI		-	]	-
REMARKS: LOSS OF CRITICAL					RE M	ODE C	OVI	ERS ALL	FUN	ICTI	ONS	S.

ASSESSME ASSESSME NASA FME	NT	I	D:	3/05/ COMTE 3.1.6	8-X	)31A			. 45 p. 4 p. 4	NASA BASE		[	]	
SUBSYSTE MDAC ID: ITEM:				COMM 8031 MONOC				SSEMB	LY (1	IID D	ECK '	TVC)	I	
LEAD ANA	LY	ST	:	W.C.	LONG	3				*				
ASSESSME	NT	:												
	CR			ITY	I	REDUN	IDANC!	SCR	EENS			CII		
			LIGH W/FU	NC	1	<b>A</b>	1	3	(			111	5M	
NASA IOA	[	3	/3	]	[	]	[	]	[	]		[	]	*
COMPARE	[	N	/N	<b>J</b> .	[	]	[	,1	[	]		[	]	
RECOMMEN	DA'	TI	ons:	(11	di	ffere	ent fi	com N	ASA)					
	[		/	1	[	]	. [	]	[	]	(A	[ DD/I	) DELE	re)
* CIL RE	TE	NT:	ION	RATION	VALE:	(If	appi	licab	1	ADEQU ADEQU		-	]	
REMARKS: LOSS OF CRITICAL	OU						URE I	MODE	COVE	RS AL	L FU	NCT	ons	•

ASSESSME ASSESSME NASA FME	NT ID:	3/05/8 COMTRE 3.1.6.	( <del>-</del> 803	31B		NASA DATA: BASELINE [ ] NEW [ ]					
SUBSYSTE MDAC ID:	M:	COMM A 8031 MONOCH				SEMBL	Y (M	ID DECK	TVC)		
LEAD ANA	LYST:	W.C. 1	LONG								
ASSESSME	NT:										
	CRITICAL		RI	EDUND	ANCY	SCRE	ENS		CIL	_	
	FLIGH HDW/FU		A		В		С		IIE	111	
NASA IOA	[ / [ 3 /3	]	[	]	[	]	[	]	]	] *	
COMPARE	[ N /N	1	[	]	[	]	[	1	[	J .	
RECOMMEN	DATIONS:	(If	dif:	feren	t fr	om NA	SA)				
g to the state of	[,,,,,	]	[	]	[	]	[		[ ADD/E	] ELETE)	
* CIL RE	TENTION	RATION	ALE:	(If	appl	icabl			_	_	
	3	er Territoria						DEQUATE DEQUATE	_	]	
REMARKS: LOSS OF CRITICAL					RE M	ODE C	OVER	S ALL F	UNCTI	ONS.	

ASSESSMI ASSESSMI NASA FMI	ENT I	D:	COMTE	K-80	32			1		DATA: LINE [ NEW [	]	
SUBSYSTIMDAC ID:			8032							ECK TVC	) 	-
LEAD AN	ALYST	r:	W.C.	LONG	;							
ASSESSMI	ENT:											
		rical Fligh	ITY	F	REDUN	DANCY	SCR	EENS		CI: IT:		
	_		NC	7	<b>.</b> .	F	3	(	<b>]</b>			
NASA IOA	[ 3	3 /3	]	[	]	[	]	[	]	[ [	] * ]	
COMPARE	[	/	]	[	]	[	]	Γ	1	[	]	
RECOMME	NDAT	cons:	(If	di	fere	nt fi	om N	ASA)				
	[	/	]	[	]	[	]	[	1	[ (ADD/	] DELETE	:)
* CIL R		NOI	RATION	IALE:	: (If	app]	licab	7	ADEQUA ADEQUA		x ]	
REMARKS PHYSICAL FUNCTION	L BII								ASE L	oss of	CCTV	٠,

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8033 2.1.6.1	NASA DAT BASELIN NE	
SUBSYSTEM: MDAC ID: ITEM:	8033	ASSEMBLY (TVC A FW	D P/L BAY)
LEAD ANALYST:	W.C. LONG		
ASSESSMENT:			
FLIGHT	ITY REDUNDANG F NC A	CY SCREENS B C	CIL ITEM
HDW/FUI	NC A	<b>b c</b>	
NASA [ 2 /2 IOA [ 2 /1R	] [ ] [ ] [ P ] [	P ] [ P ]	[ X ] *
COMPARE [ /N	] [N][	и] [и]	[ ]
RECOMMENDATIONS:	(If different	from NASA)	
[ 2 /1R	] [P] [	P] [P] (	[ ADD/DELETE)
	RATIONALE: (If app	plicable) ADEQUATE INADEQUATE	[ X ] [ ]
CAPABILITY TO PERMONITORING P/L BANGUE AND CREW WINDOW VIEWING, JETTISON TO ALLOW	RFORM CCTV FUNCTION AY DOOR LATCHES REPORTED TO THE CCTV REPORTED TO THE COMPANY OF T	F CCTV AND MISSION ON COULD PREVENT RESULTING IN POSSIB DUNDANCY EXISTS VICREW VISUAL INSPECTURE. WORST CASE	MS STOW AND LE LOSS OF A CREW TION AND RMS

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8033A	NASA DATA BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	8033	ASSEMBLY (TVC A FWD	P/L BAY)
LEAD ANALYST:	W.C. LONG		
ASSESSMENT:			
CRITICAL FLIGH	ITY REDUNDAN	ICY SCREENS	CIL ITEM
	NC A	<b>B C</b> ***	TIM
NASA [ 2 /2 IOA [ 2 /1R	] [ ] [ ] [ P ] [	P ] [ P ]	[ X ] * [ X ]m:
COMPARE [ /N	] [и] [	[и] [и]	[ ]
RECOMMENDATIONS:	(If different	from NASA)	
[ 2 /1R	] [P] [	[P] [P] (A	[ ] DD/DELETE)
* CIL RETENTION	RATIONALE: (If ap	oplicable) ADEQUATE INADEQUATE	[ X ]
CAPABILITY TO PE MONITORING P/L B VEHICLE AND CREW	RFORM CCTV FUNCTI AY DOOR LATCHES R . UNLIKE CCTV RE	OF CCTV AND MISSION. CON COULD PREVENT RMS RESULTING IN POSSIBLE COUNDANCY EXISTS VIA CREW VISUAL INSPECT	LOSS OF ALL S STOW AND E LOSS OF CREW

JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.

ONLY WORST CASE CONDITION WAS ANALYSED.

ASSESSME ASSESSME NASA FME		80:	33E	3							DA SELI N		[	x	]						
SUBSYSTE MDAC ID:										. 2	ASS	SEM.	BLY	(T	VC	A F	WD	P,	/L	BA	YX)
LEAD ANALYST: W.C. LONG																					
ASSESSME	NT:																				
CRITICALITY REDUNDAN FLIGHT HDW/FUNC A										N		SC	REEN						CL CEM	1	
	H	DW/	/FUI	NC			A				ВС										
NASA IOA	[ :	3 / 2 /	/3 /1R	]		[	P	]		[	P	]	]	P	]			[	x	]	*
COMPARE	į i	N /	/N	]		[	N	]	a.	[	N	]	ָ	N	ĵ			[	N	]	
RECOMMEN	'DAT	101	NS:		(If	đ	if:	fer	ent	. 1	fro	om 1	NASA	.)							
	[	/	/	]		[		]		[		]	[		]		(AI	[ /QC	/DE	] ELE	ETE;
* CIL RE								•					I			TAU( TAU(		[		]	
ONLY WOR	2T (	CAS	った (	LON	DIL	TO	N I	NAS	A.N.	Al	JX 5	EU	•								

ASSESSME ASSESSME NASA FME	NT I	D:	COMTR	COMTRK-8034 BASELINE													
SUBSYSTE MDAC ID: ITEM:											P/L BAY)						
LEAD ANALYST: W.C. LONG											e e de e .						
ASSESSMENT:																	
CULTICALITIE MAD ON STREET												CIL ITE					
FLIGHT HDW/FUNC A B C																	
NASA IOA	[ 2	/2 /1R	]	[	P	]	]	P	]	[	P	]		( X	] <b>*</b>	,	
COMPARE	[	/N	]	[	N	]	[	N	]	[	N	]		[	]		
RECOMMEN	DATI	ons:	(If	đ.	if	feren	t:	fro	om N.	ASA)	)						
	[ 2	/1R	]	[	<b>.</b>	]	(	P	]	[	P	]	(AD	[ D/D:	] ELET	E)	
* CIL RE		'ION	RATION	IAL	E :	(If	ap]	pl:	icab		Al	DEQUAT		( X (			
PHYSICAL LOSS OF	BTN	DING	/JAMM] BILITY	ING	Ç(	OULD PERFO	CA	USI C	E LO	SS (	OF CT:	CCTV I	AND ULD	MI PR	SSIO EVEN	N. IT RM	

STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8035	NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM: BAY)	COMM AND TRACK 8035 MONOCHROME LENS AS	SEMBLY (TVC B KEEI	L/EVA AFT P/L
LEAD ANALYST:	W.C. LONG		
ASSESSMENT:			
CRITICAL		SCREENS	CIL ITEM
FLIGH HDW/FU	_	c C	LIDM
NASA [ 2 /2 IOA [ 2 /1R	] [ p ] [ p	) [ ] ) [ P ]	[ X ] *
COMPARE [ /N	] [N] [N	(и) [и]	[ ]
RECOMMENDATIONS:	(If different fr	com NASA)	
[ 2 /1R	] [P] [F	P] [P] (AI	[ DD/DELETE)
* CIL RETENTION	RATIONALE: (If appl	licable) ADEQUATE INADEQUATE	[ X ]
CAPABILITY TO PE	OULD CAUSE LOSS OF RFORM CCTV FUNCTION AY DOOR LATCHES RES . UNLIKE CCTV REDU	N COULD PREVENT RMS SULTING IN POSSIBLI	S STOW AND E LOSS OF

CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION

WAS ANALYSED.

ASSESSMENT DI ASSESSMENT II NASA FMEA #:	ATE: 3/05/ D: COMTF 2.1.6	/88 RK-8035A 5.4		NASA DATA: BASELINE [ ] NEW [ X ]									
SUBSYSTEM:	COMM	AND TRACK	<b>3</b> 7 1 1 1 1	SEMBLY (TVC B KEEL/EVA									
LEAD ANALYST	: W.C.	LONG											
ASSESSMENT:					, and the second								
ਸ਼ਾ	ICALITY LIGHT W/FUNC			ENS C	CIL ITEM								
NASA [ 2 IOA [ 2	/2 ] /1R ]	[ p ]	[	[ ] [ P ]	[ X ] *								
COMPARE [	/N ]	[ N ]	[ א ]	[ N ]	[ ]								
RECOMMENDATION	ons: (If	differen	t from NA	SA)									
[ 2	/1R ]	[ P ]	[ P ]		[ ] ADD/DELETE)								
* CIL RETENT	ION RATION	ALE: (If	applicabl	e) ADEQUATE INADEQUATE	[ X ]								
CAPABILITY TO MONITORING P, VEHICLE AND O CREW WINDOW	D PERFORM /L BAY DOO CREW. UNI VIEWING, E TO ALLOW	CCTV FUNC R LATCHES IKE CCTV VA AND CO	TION COUL RESULTING REDUNDANC AS FOR CR	D PREVENT R G IN POSSIB Y EXISTS VI EW VISUAL I	LE LOSS OF								

	3/05/88 COMTRK-8035B 2.1.6.3		NASA DATA: BASELINE [ ] NEW [ X ]								
MDAC TD:	COMM AND TRACK 8035 MONOCHROME LENS	S ASSEMBLY	(TVC B KEEI	L/EVA AFT P/L							
LEAD ANALYST:	W.C. LONG										
ASSESSMENT:											
CRITICALI FLIGHT HDW/FUN	1	ANCY SCREEN	s 	CIL ITEM							
·		_	1	[ ] <b>*</b>							
NASA [ 3 /3 IOA [ 2 /1R	] [ ] ] [ P ]	[P] [	Рj	[ ] * [ X ]							
COMPARE [ N /N	] [ N ]	[ N ] [	N ]	[ N ]							
RECOMMENDATIONS:	(If differen	t from NASA	.)								
ι /	] [ ]	[ ] [	] (A)	[ ] DD/DELETE)							
* CIL RETENTION R	RATIONALE: (If		ADEQUATE NADEQUATE								
ONLY WORST CASE C	CONDITION WAS A	NALYSED.									

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2.1.6.2	NASA DATA: BASELINE [ ] NEW [ X ]								
SUBSYSTEM: MDAC ID: ITEM: BAY)	COMM AND TRACK 8036 MONOCHROME LENS ASSEMBLY	(TVC B KEEL/EVA AFT P/I								
LEAD ANALYST:	W.C. LONG									
ASSESSMENT:										
CRITICAL	TATAL									
FLIGH HDW/FU	NC A B	C 11211								
	] [ ] [ ] [ ] [ P ] [ P ]									
COMPARE [ /N	] [ N ] [ N ] [	и] [ ]								
RECOMMENDATIONS:	(If different from NASA	)								
[ /2	] [1R] [P] [	P ] [ ] (ADD/DELETE)								
* CIL RETENTION	RATIONALE: (If applicable)									
	I	ADEQUATE [ X ] NADEQUATE [ ]								
STOW AND MONITOR LOSS OF VEHICLE CREW WINDOW VIEW	/JAMMING COULD CAUSE LOSS BILITY TO PERFORM CCTV FUN ING P/L BAY DOOR LATCHES R AND CREW. UNLIKE CCTV RED ING, EVA AND COAST FOR CRE ALLOW P/L BAY DOOR CLOSURE	CTION COULD PREVENT RMS ESULTING IN POSSIBLE UNDANCY EXISTS VIA W VISUAL INSPECTION AND								

CONDITION.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8037	NASA DATA: BASELINE [ ] NEW [ X ]										
SUBSYSTEM: MDAC ID: ITEM:		(TVC C AFT P/L BAY)										
LEAD ANALYST:	W.C. LONG											
ASSESSMENT:												
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM												
	IC A B	C										
NASA [ 2 /2 IOA [ 2 /1R	] [ ] [ ] [ ] [ P ] [ P ] [	[ X ] * P ] [ X ]										
COMPARE [ /N	] [N] [N] [	ן א [ ]										
RECOMMENDATIONS:	(If different from NASA)											
[ 2 /1R	] [P] [P] [	P ] [ ] . (ADD/DELETE)										
* CIL RETENTION R	RATIONALE: (If applicable)											
	<u> </u>	ADEQUATE [ X ] NADEQUATE [ ]										
CAPABILITY TO PER MONITORING P/L BAVEHICLE AND CREW. WINDOW VIEWING, E	OULD CAUSE LOSS OF CCTV AND REFORM CCTV FUNCTION COULD IN AY DOOR LATCHES RESULTING IN UNLIKE CCTV REDUNDANCY IN EVA AND COAS FOR CREW VISUA W P/L BAY DOOR CLOSURE. WO	PREVENT RMS STOW AND IN POSSIBLE LOSS OF EXISTS VIA CREW AL INSPECTION AND RMS										

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-80 2.1.6.4	037 <b>A</b>	BASELINE	[ X ]	
SUBSYSTEM: MDAC ID:	COMM AND 8037	TRACK	(TVC C AFT	P/L BAY)	
LEAD ANALYST:	W.C. LONG	G			
ASSESSMENT:					A Company of the Comp
	ITY 1	REDUNDAI	NCY SCREE	NS	CIL ITEM
FLIGH HDW/FU	NC A	A	В	C	4.4.4.4
NASA [ 2 /2 IOA [ 2 /1R	] [:	P ]	[ ] [P]	[ ] [ P ]	[ X ] * [ X ]
COMPARE [ /N	] [ ]	N ]	[и]	[ N ]	[ ]
RECOMMENDATIONS:	(If di	fferent	from NAS	<b>A)</b>	
[ 2 /1R	ָז <u>(</u>	P ]	[ P ]	[ P ] (AI	[ DD/DELETE)
* CIL RETENTION	RATIONALE	: (If a		) ADEQUATE INADEQUATE	[ X ]
REMARKS:	a Estableca e i i vessi e jegi.	with the same of the same	s sum i majas piece alaksing.	n anas i sa la saman. Lynn s	······································
LOSS OF OUTPUT C	OULD CAUS	E LOSS (	OF CCTV A	ND MISSION.	LOSS OF ALL
MONITORING P/L B	AY DOOR L	ATCHES I	RESULTING	IN POSSIBLE	E LOSS OF
VEHICLE AND CREW	. UNLIKE	CCTV R	EDUNDANCY	EXISTS VIA	CREW
WINDOW VIEWING, JETTISON TO ALLO	EVA AND C W P/L BAY	OAS FOR DOOR C	CREW VIS LOSURE.	WORST CASE	CONDITION.

	SMENT DATE: 3/05/88 SMENT ID: COMTRK-8037B FMEA #: 2.1.6.3									NASA DATA: BASELINE [ ] NEW [ X ]												
SUBSYSTEMDAC ID:	M:			80	MM 2 37 NOCE				A	ss	EME	BLY	(!	rv	ď	C i	AFT	' P,	/ <b>L</b>	B	AY)	
LEAD ANALYST: W.C. LONG																						
ASSESSME	NT:	:																				
CRITICALITY REDUNDAN FLIGHT HDW/FUNC A										NC	Y B	SCF	REEN		c					IL FEN	1	
	,	ועה	N/ FUI	NC			A				D			`	_							
NASA IOA	]	3 2	/3 /1R	]		[	P	]		[ [	P	]	[		P	]			[ [	x	]	*
COMPARE	[	N	/N	]		[	N	]		[	N	]	נ	. 1	N	]			[	N	]	
RECOMMEN	DA:	ri(	ONS:		(If	d	if:	fer	ent	f	rc	om N	NASA	(۱								
at e	[		/	1		[		]		[		]	[	•	•	]		( <i>1</i>	_	/DI	_	ETE)
* CIL RE			ud udī um gravi	127	in the second			•				icak	·	i			UA' 'AU	TE TE	[	x	]	
ONLY WOR	ST	CZ	ASE	COI	IDIT:	IO.	N Z	ANA	LYS	ΕI	).											

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8038 2.1.6.2	NASA DATA: BASELINE [ ] NEW [ X ]
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8038 MONOCHROME LENS ASSEMB	LY (TVC C AFT P/L BAY)
LEAD ANALYST:	W.C. LONG	
ASSESSMENT:		
CRITICAL FLIGH HDW/FU	EENS CIL ITEM C	
NASA [ 2 /2 IOA [ 2 /1R	] [ ] [ ] [ ] [ P ]	[ ] [ X ] * [ P ] [ X ]
COMPARE [ /N	] [N] [N]	[и] [л]
RECOMMENDATIONS:	(If different from N	(ASA)
[ 2 /1R	[P] [P]	[P] [] (ADD/DELETE)
	RATIONALE: (If applicab	ole) ADEQUATE [ X ] INADEQUATE [ ]
LOSS OF ALL CAPA STOW AND MONITOR LOSS OF VEHICLE CREW WINDOW VIEW	BILITY TO PERFORM CCTV ING P/L BAY DOOR LATCHE AND CREW. UNLIKE CCTV	REW VISUAL INSPECTION AND

	3/05/88 COMTRK-8039 2.1.6.1	NASA DATA: BASELINE NEW	[ ]
	COMM AND TRACK 8039 MONOCHROME LENS ASSI	EMBLY (TVC D FWD	P/L BAY)
LEAD ANALYST:	W.C. LONG		
ASSESSMENT:			
CRITICAL: FLIGHT		SCREENS	CIL ITEM
HDW/FUI	NC A B	С	
NASA [ 2 /2 IOA [ 2 /1R	] [ ] [ P ]	] [ ] ] [ P ]	[ X ] *
COMPARE [ /N	] [N] [N]	ן א ]	[ ]
RECOMMENDATIONS:	(If different from	n NASA)	
[ 2 /1R	] [P] [P]	] [P] (A)	[ DD/DELETE)
* CIL RETENTION	RATIONALE: (If applion	cable) ADEQUATE INADEQUATE	[ X ]
	OULD CAUSE LOSS OF CORFORM CCTV FUNCTION O	CTV AND MISSION.	

LOSS OF OUTPUT COULD CAUSE LOSS OF CCTV AND MISSION.LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. ONLY WORST CASE CONDITION WAS ANALYSED.

ASSESSMENT DATE: 3/05/88 ASSESSMENT ID: COMTRE NASA FMEA #: 2.1.6.							303	39A						SA BASE	ELI		[				
SUBSYSTE MDAC ID:				80	39						SEMB1			7C [	) FV	۷D	P/	'L	BAY	· ?)	4, 5
LEAD ANA	LYS	ST:	:	W.	c. I	10.	IG														
ASSESSME	NT	•																			
	CR:		ICAL:				RI	EDUI	NDAN	CY	SCRI	EENS	3					L	,		
	I		LIGH: W/FUI				A			В			С	٠			T.1	ren	l		
NASA IOA	[	2 2	/2 /1R	]		[	P	]	[	P	]	[	P	]			[	X X	] *	•	
COMPARE	[		/N	]		[	N	]	[	N	]	[	N	]			[		]		
RECOMMEN	IDA:	ΓI	ons:		(If	đ	f	fer	ent	fro	om NZ	ASA)	)								
	٦.	2	/1R	]		[	P	]	Ţ	P	]	[	P	]		(AI		/DE	] ELET	Œ)	
* CIL RE	TE	NT:	ION 1	RAT	IONA	LI	Ξ:	(I:	f ap	pl:	icab)			DEQU DEQU			[	x	]		
REMARKS: LOSS OF CAPABILI MONITORI VEHICLE VIEWING, TO ALLOW ANALYSEI	OU' TY NG AN E' V P	TO P, D O VA	O PEI /L BI CREW AND	RFO AY • CO	RM C DOOF UNLI AS F	CT KI	CV LA! E (	FUI I'CHI CCT' CREI	NCTI ES R V RE W VI	ON ESI DUI SU	COU ULTII VDANO AL II	LD I NG ] CY I NSPI	PRI [N EX] EC]	EVEN POS STS NOI	NT 1 SSI1 S V: N A1	RMS BLE IA ND	CI RI	STO LOS REV IS	W 7 SS ( J W] JET	ND F ND TTI	OW

ASSESSME ASSESSME NASA FME	ENT	I	D:	3/05 COMT 2.1.	RK-8	303	39E	3						DA ELI N		[		]	
SUBSYSTE MDAC ID:				8039	COMM AND TRACK 8039 MONOCHROME LENS ASSEMBLY (TVC D FWD								WD	P,	/L	BA	Y)		
LEAD ANA	LY	ST	:	W.C.	LON	īG													
ASSESSME	ENT	:																	
		F	LIGH'	ITY I NC				JNDAN	CY B	SC	REENS	s C					IL PEN	1	
NASA IOA	[	3 2	/3 /1R	]	]	P	]	]	P	]	[	P	]			[	x	] *	k
COMPARE	[	N	/N	]	[	N	]	Į.	N	]	(	N	]			[	N	]	
RECOMMEN	IDA'	ΓΙ	ons:	(I	f di	fi	fer	cent	fro	om 1	NASA	)							
	٦ ٠		/	]	[	٠	]	C		]	[		j		(AD	[ D/	/DI	] ELET	ſE)
* CIL RE	:			-				-	-		I	AI IAN	DEQ DEQ	UAT UAT	E E	]	x	]	
ONLY WOL			ASE (					ANA		SED	•			· :					

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8040 2.1.6.2	NASA D. BASEL	ATA: INE [ ] NEW [ X ]
SUBSYSTEM: MDAC ID: ITEM:	8040	S ASSEMBLY (TVC D	
LEAD ANALYST:	W.C. LONG		
ASSESSMENT:			
	ITY REDUND		CIL ITEM
FLIGH HDW/FU	NC A	B C Test	mar.
NASA [ 2 /2 IOA [ 2 /1R	] [ ] ] [ P ]	[ ] [ ] [ P ]	[ X ] * [ X ]
COMPARE [ /N	] [ N ]	[и] [и]	[ ]
RECOMMENDATIONS:	(If differen	t from NASA)	
[ 2 /1R	[P]	[ P ] [ P ]	[ ] (ADD/DELETE)
* CIL RETENTION	RATIONALE: (If	ADEQUA	TE [ X ]
LOSS OF ALL CAPA STOW AND MONITOR LOSS OF VEHICLE CREW WINDOW VIEW	BILITY TO PERFO ING P/L BAY DOO AND CREW. UNLI ING, EVA AND CO	CAUSE LOSS OF CCTV RM CCTV FUNCTIONCO R LATCHES RESULTIN KE CCTV REDUNDANCY AS FOR CREW VISUAL OOR CLOSURE. WORS	AND MISSION. OULD PREVENT RMS IG IN POSSIBLE EXISTS VIA INSPECTION AND

CONDITION.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	F DATE: 3/05/88       NASA DATA:         F ID: COMTRK-8041       BASELINE [ ]         #: 5.1.6.1       NEW [ X ]									
MDAC ID.	COMM AND TRACK 8041 MONOCHROME LEN	Y RMS WRIST TVC)								
LEAD ANALYST:	W.C. LONG									
ASSESSMENT:										
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM										
HDW/FU	NC A	ВС								
NASA [ 2 /2 IOA [ 3 /2R	] [ p ]	[ ] [ ] [ P ] [ P ]	[ x ] *							
COMPARE [ N /N	] [ N ]	[и] [и]	[ N ]							
RECOMMENDATIONS:	(If differen	nt from NASA)								
' . [ /	] [ ]	[ ] [ ]	[ ] (ADD/DELETE)							
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]										
REMARKS: LOSS OF MLA WOULD CAUSE LOSS OF TVC OUTPUT RESULTING IN REDUCED MISSION EFFECTIVENESS. WRIST TVC NOT USED TO MONITOR CRITICAL FUNCTIONS AND ELBOW TVC PROVIDES PARTIAL REDUNDANCY FOR MISSION SUPPORT. UNLIKE REDUNDANCY EXISTS VIS CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION. ALL CAPABILITY TO PERFORM WRIST TVC FUNCTION COULD RESULT IN LOSS OF MISSION. ONLY WORST										

CASE CONDITION WAS ANALYSED.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8041A 5.1.6.4	NASA DATA: BASELINE [ ] NEW [ X ]							
	8041		BAY RMS WRIST TVC)						
LEAD ANALYST:	W.C. LONG								
ASSESSMENT:									
CRITICAL		DANCY SCREENS	CIL ITEM						
HDW/FU	r NC A	в с	IIEM						
NASA [ 2 /2 IOA [ 3 /2R	] [ p ]	[ ] [ ] [ P ]	[ x ]						
COMPARE [ N /N	] [ N ]	[ N ] [ N ]	[ N ]						
RECOMMENDATIONS:	(If differe	nt from NASA)							
[ /	] [ ]	[ ] [ ]	[ ] (ADD/DELETE)						
* CIL RETENTION	RATIONALE: (If	ADE	QUATE [ X ] QUATE [ ]						
MISSION EFFECTIVE FUNCTIONS AND ELECTRICAL SUPPORT. UNLIKE AND COAS FOR CRES	ENESS. WRIST BOW TVC PROVID REDUNDANCY EX W VISUAL INSPE	TVC NOT USED TO ES PARTIAL REDUN ISTS VIS CREW WI CTION. ALL CAPA	ULTING IN REDUCED MONITOR CRITICAL DANCY FOR MISSION NDOW VIEWING, EVA BILITY TO PERFORM SION. ONLY WORST						
		<b>-</b>							

CASE CONDITION WAS ANALYSED.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK- 5.1.6.3	8041B		NASA DATA BASELINI NEV						
SUBSYSTEM: MDAC ID: ITEM:	COMM AN 8041 MONOCHR		RMS WRIST TVC)							
LEAD ANALYST:	NALYST: W.C. LONG									
ASSESSMENT:										
CRITICAL FLIGH		REDUND	ANCY SCRE		CIL ITEM					
HDW/FU	NC	A	В	С						
NASA [ 3 /3 IOA [ 3 /2R	] [	P ]	[ p ]	[ ] [ P ]	[ ] *					
COMPARE [ /N	] [	иј	[ N ]	[ N ]	[ ]					
RECOMMENDATIONS:	(If d	ifferen	t from NA	SA)						
[ /	] [	]	[ ]	[ ] (2	[ ] ADD/DELETE)					
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]										
REMARKS: ONLY WORST CASE CONDITION WAS ANALYSED.										

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8042 5.1.6.2	NASA DATA: BASELINE [ ] NEW [ ]
SUBSYSTEM:	COMM AND TRACK	LY (P/L BAY RMS WRIST TVC
LEAD ANALYST:	W.C. LONG	
ASSESSMENT:		
FLIGH	ITY REDUNDANCY SCRE T NC A B	C C C C C C C C C C C C C C C C C C C
NASA [ 2 /2 IOA [ 3 /2R	] [ ] [ ] [ P ]	[ ] [ X ] * [ P ] [ ]
COMPARE [ N /N	] [ N ] [ N ]	[ N ] [ N ]
RECOMMENDATIONS:	(If different from NA	ASA)
. [ /	] [ ] [ ]	[ ] [ ] (ADD/DELETE)
	RATIONALE: (If applicabl	Le) ADEQUATE [ X ] INADEQUATE [ ]
MLA WOULD CAUSE EFFECTIVENESS. AND ELBOW TVC PR SUPPORT. UNLIKE AND COAS FOR CRE	LOSS OF TVC OUTPUT RESULT WRIST TVC NOT USED TO MO OVIDES PARTIAL REDUNDANCE REDUNDANCY EXISTS VIA COUNTY UNIQUE ON COULD RESULT IN LOSS	S OF MLA OUTPUT. LOSS OF TING IN REDUCED MISSION ONITOR CRITICAL FUNCTIONS BY FOR MISSION CREW WINDOW VIEWING, EVALL CAPABILITY TO PERFORM OF MISSION. ONLY WORST

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8043		NASA DATA BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRAC 8043 MONOCHROME LI		(P/L BAY R	MS ELBOW TVC)
LEAD ANALYST:	W.C. LONG			
ASSESSMENT:				
CRITICAL FLIGH	ITY REDUI	IDANCY SCREE	NS	CIL ITEM
	NC A	В	<b>C</b>	2.22.
NASA [ 2 /2 IOA [ 3 /2R	] [ p ]	[ ] [ P ]	[ ] [ P ]	[ X ] * [ ]
COMPARE [ N /N	] [ N ]	[ N ]	[ N ]	[ N ]
RECOMMENDATIONS:	(If differe	ent from NAS.	A)	
[ /	] [ ]	[ ]	[ ] (A)	[ ] .DD/DELETE)
* CIL RETENTION	RATIONALE: (I		) ADEQUATE INADEQUATE	
REMARKS: LOSS OF MLA OPER OUTPUT COULD RES NOT USED TO MONI PARTIAL REDUNDAN EXISTS VIA CREW INSPECTION. ALI	TOR CRITICAL TOR CRITICAL TOR CRITICAL TO THE TOR MISSION WINDOW VIEWING	IN LOSS OF D MISSION EFFUNCTIONS AN SUPPORT.	TVC OUTPUT. FECTIVENESS D WRIST TVC UNLIKE REDU OAS FOR CRE	LOSS OF TVO E. ELBOW TVC PROVIDES INDANCY W VISUAL

RESULT IN LOSS OF MISSION. ONLY WORST CASE CONDITION WAS

ANALYSED.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8043A	NASA DATA: BASELINE [ ] NEW [ X ]
	COMM AND TRACK 8043 MONOCHROME LENS ASSE	MBLY (P/L BAY RMS ELBOW TVC)
LEAD ANALYST:	W.C. LONG	
ASSESSMENT:		
CRITICAL FLIGH		ITEM
HDW/FU	NC A B	<b>C</b>
NASA [ 2 /2 IOA [ 3 /2R	] [ ] [ ] ] [ P ]	[ ] [ X ] * [ P ] [ ]
COMPARE [ N /N	] [N] [N]	[и] [и]
RECOMMENDATIONS:	(If different from	NASA)
[ /	] [ ] [ ]	[ ] [ ] (ADD/DELETE)
	RATIONALE: (If applic	cable)  ADEQUATE [ X ]  INADEQUATE [ ]
OUTPUT COULD RES NOT USED TO MONI PARTIAL REDUNDAN EXISTS VIA CREW INSPECTION. ALL	ULT IN REDUCED MISSIC TOR CRITICAL FUNCTION CY FOR MISSION SUPPOR WINDOW VIEWING, EVA A CAPABILITY TO PERFOR	OF TVC OUTPUT. LOSS OF TVC ON EFFECTIVENESS. ELBOW TVC IS AND WRIST TVC PROVIDES OT. UNLIKE REDUNDANCY AND COAS FOR CREW VISUAL OM ELBOW TVC FUNCTION COULD OT CASE CONDITION WAS

ASSESSME ASSESSME NASA FME	NT I		3/05/3 COMTR 4.1.6	K-8	04	3B	NASA DATA: BASELINE [ ] NEW [ X ]									
SUBSYSTE MDAC ID: ITEM:	M:		8043	COMM AND TRACK 8043 MONOCHROME LENS ASSEMBLY (P/L BAY RM								MS E	LBO	W TVC)		
LEAD ANA	LYST	:	W.C.	LON	IG											
ASSESSME	NT:													*** :		
			ITY		RE	DUNDA	NC	Y	SCR	EENS	5			CIL		
		LIGH' W/FU			A			В			С			TTE	M	
NASA IOA		/3 /2R	]	[	P	]	[	P	]	[	P	]		[.	]	*
COMPARE	[	/N	]	[	N	]	[	N	]	[	N	]		[	]	
RECOMMEN	DATI	ons:	(If	di	ff	erent	: f	ro	om N	ASA)	)					
and the second	[	/	]	[		]	[		]	[		]	(Al	[ DD/D	] ELE	TE)
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ] INADEQUATE [ ] REMARKS:																
ONLY WOR	ST C	ASE 🖟	CONDIT	ION	I W	ias an	IAI	YS	SED.							

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8044	NASA DATA: BASELINE [ NEW [	]	
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8044 MONOCHROME LENS			ELBOW TVC)
LEAD ANALYST:	W.C. LONG			
ASSESSMENT:				Aller Commence of the Commence
CRITICAI FLIGH			IT	
HDW/FU	NC A	В	C to seem to the	
NASA [ 2 /2 IOA [ 3 /2F	[ ] [ P ]	[ P ] [	P ] [	x ] *
COMPARE [ N /N	] [ N ]	[ N ] [	N ] [	и ј
RECOMMENDATIONS:	(If different	t from NASA	) -	
1 /	] [ ]	[ ] [	] [ (ADD/	] DELETE)
* CIL RETENTION	RATIONALE: (If		ADEQUATE [ NADEQUATE [	x ]
TVC OUTPUT COULI TVC NOT USED TO PARTIAL REDUNDA	JAMMING RESULT: RESULT IN REDUCTION OF THE PROPERTY OF THE PRO	CED MISSION L FUNCTIONS SUPPORT. U	EFFECTIVENES AND WRIST TV NLIKE REDUNDA	C PROVIDES

INSPECTION. ALL CAPABILITY TO PERFORM ELBOW TVC FUNCTION COULD

RESULT IN LOSS OF MISSION.

ASSESSME ASSESSME NASA FME	NT	I			RK-80	45			N	IASA BASE	DATA LINE NEW	[	x	]	
SUBSYSTE MDAC ID: ITEM:	M:			8045			ek Ens as	SEME	BLY (F	'LT D	ECK '	rvc	)		
LEAD ANA	LYS	ST	:	W.C.	LONG										
ASSESSME	NT	:											-		
	CR]			ITY	R	EDUN	IDANCY	SCF	REENS			CI			
	I		LIGH W/FU	NC	A		В	}	c	:		11.	Lipi		
NASA IOA	[	2	/2 /3	]	[ [	]	[	]	] [	]		[	X	] *	k
COMPARE	[	N	/N	1	C	]	[	]	[	]		[	N	]	
RECOMMEN	DA:	rI	ons:	(I	f dif	fere	ent fr	om 1	IASA)						
	[		/	]	[	]	, [	]	. [	]	(Al	[ DD/	DE	] LE:	ΓE)
* CIL RE	TEI	NT.	ION	RATIO	NALE:	(If	appl	icak	7	ADEQU ADEQU		[	x	]	
REMARKS: NORMALLY BAY USE															ARGO TION.

ASSESSME ASSESSME NASA FME	NT	II		3/05, COMTI 2.3.0	RK-80	45A			1	NASA DATA: BASELINE [ ] NEW [ X ]						
SUBSYSTE MDAC ID:				COMM 8045 WIDE				SEMI	BLY (1	FLT D	ECK TVC)					
LEAD ANA	LYS	ST	:	W.C.	LONG											
ASSESSME	NT	•									At the second					
	CR:		ICAL LIGH	ITY	R	EDUN	IDANCY	SCI	REENS		CIL ITEM					
	1		W/FU		A		В		(	2	2221					
NASA IOA	[	2	/2 /3	]	[	]	[	]	[	]	[ X ] * [ ]					
COMPARE	[	N	/N	1	[	]	[	]	[	]	[и]					
RECOMMEN	IDA!	ri(	ons:	(I:	f dif	fere	nt fr	om 1	NASA)							
	[		/	1	`[	]	. [	]	[	]	[ ] (ADD/DELETE)					
* CIL RE		NT:	ION	RATIO	NALE:	(If	appl	ical	7	ADEQU ADEQU	ATE [ X ] ATE [ ]					
REMARKS: NORMALLY	. U	SEI	D FO	R INT	ERNAL CRIT	SCE	NES W	HICI O CO	H IS I	NOT C	RITICAL. CARGO CASE CONDITION.					

ASSESSME ASSESSME NASA FME	NT	ID	:	COMTI	NASA DATA:  COMTRK-8045B  COMTRK-8045B  COMM AND TRACK  NASA DATA:  BASELINE [ ]  NEW [ X ]											
SUBSYSTE MDAC ID: ITEM:	M:			8045			ASS	EMBLY	(	FLT DECK	TV	C)				
LEAD ANA	LYS	T:		W.C.	LONG				. =	1 % - 145	- '			2 - 11		
ASSESSME	NT:															
	CRI			ITY	RE	DUNDA	NCY	SCREE	NS	3	_	IL TEM	ī			
	H		IGH FU		A		В			C	-		-			
NASA IOA	[	3 3	/3 /3	]	[	]	[	]	[ [	]	]		]	*		
COMPARE	ι		/	]	[	]	[	]	[	]	[		]			
RECOMMEN	DAT	CIC	ons:	(I	f diff	erent	fro	m NAS	SA)	)						
	[		/	1	[	]	[	]	[	] (	] DDA	/DE	] ELE	· TE)		
* CIL RE		T	ON	RATIO	NALE:	(If a	ppli	.cable		ADEQUATE NADEQUATE		x	]			
REMARKS: LOSS OF		r Pī	JT I	n agr	EEMENT	۲.										

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8045C 2.3.8.2		NASA BASE	DATA: LINE [ ] NEW [ X ]
· · - · - · - · - · - · · · · · · · · ·	COMM AND TRA 8045 WIDE ANGLE L		LY (FLT D	ECK TVC)
LEAD ANALYST:	W.C. LONG			
ASSESSMENT:				
CRITICAL: FLIGHT		NDANCY SCR	EENS	CIL ITEM
HDW/FUI		В	С	
NASA [ 3 /3 IOA [ 3 /3	] [ ]	[ ]	[ ]	* [ ]
COMPARE [ /	] [ ]	[ ]	[ ]	[ ]
RECOMMENDATIONS:	(If differ	ent from N	ASA)	
[ /	] [ ]	[ ]	[ ]	[] (ADD/DELETE
* CIL RETENTION I REMARKS: LOSS OF OUTPUT IN		f applicab	le) ADEQU INADEQU	

ASSESSMENT D. ASSESSMENT I NASA FMEA #:		3/05/8 COMTRE 3.3.6.	-804	5D				ASA DATA BASELINE NEW					
SUBSYSTEM: MDAC ID: ITEM:		COMM A 8045 WIDE A			S ASS	SEMBLY	(FI	LT DECK	IVC)				
LEAD ANALYST	:	W.C. I	ONG										
ASSESSMENT:													
CRITICALITY REDUNDANCY SCREENS CIL ITEM													
_	W/FU		A		В		С			-			
NASA [ 3 IOA [ 3	/3 /3	]	[	]	[	]	[	]	[	]	*		
COMPARE [	/	]	[	]	[	]	[	]	[	]			
RECOMMENDATI	ons:	(If	difi	ferent	t fr	om NAS	SA)						
. [	/	]	[	]	[	]	[	] (A	[ DD/D		TE)		
* CIL RETENT	'ION	RATION	ALE:	(If a	appl	icable	A.	DEQUATE DEQUATE		]			
REMARKS: LOSS OF OUTF CRITICALITIE					RE M	ODE C	OVER	S ALL FU	NCTI	ons	<b>!.</b> .		

ASSESSME ASSESSME NASA FME	ENT I		DATA: LINE NEW	[								
SUBSYSTE MDAC ID:			COMM 8045 WIDE				SEMBI	LY (F	LT D	ECK T	rvc)	
LEAD ANA	LYSI	r:	W.C.	LONG								
ASSESSME	ENT:											
		TICAL FLIGH	ITY T	R	EDUND	ANCY	SCRI	EENS			CIL	
			NC	A		B	3	C	•			
NASA IOA	[ 3	3 /3	]	[	]	[ [	]	[	]		[	] * ]
COMPARE	[	/	]	[	]	[	]	[	]		[	]
RECOMMEN	IDAT1	ons:	(If	dif:	feren	t fr	om NA	ASA)	-			
	[	/	]	[	]	[	]	[	]	· (AI	[ D/D	] ELETE)
* CIL RE		TION :	RATION	ALE:	(If	appl	icab]	A		ATE ATE	[ X	-
REMARKS: LOSS OF CRITICAL	OUTE					RE M	ODE (	COVER	RS AL	L FUN	CTI	ons.

ASSESSMEN ASSESSMEN NASA FME	NT ID:	3/05/8 COMTRI 3.3.6	K-804	5 <b>F</b>			-	ASA DA BASELI N	NE	( x	]		
SUBSYSTEM MDAC ID:		COMM A 8045 WIDE A			ASS	SEMBLY	(FI	LT DEC	кт	VC)			
LEAD ANA	LYST:	W.C. 1	LONG										
ASSESSME	NT:												
CRITICALITY REDUNDANCY SCREENS CIL ITEM													
	HDW/FU	NC	A		В		С						
NASA IOA	[ 3 /3 [ 3 /3	]	[	]	[	]	[ [	]		[	]	*	
COMPARE	[ /	]	[	3	[	]	[	]		[	]		
RECOMMEN	DATIONS:	(If	diff	erent	: fro	om NAS	SA)						
	[ /	]	ι .	]	[.	]	נ	1	(AD	[ D/DI	] ELF	ETE)	
* CIL RE	TENTION	RATION	ALE:	(If a	ippl:	icable	Al	DEQUAT DEQUAT		[ X	]		
REMARKS: LOSS OF CRITICAL		ORST C		'AILUF	RE MO	DDE CO	OVER	S ALL	FUN	CTI	SNC	s.	

ASSESSMI ASSESSMI NASA FMI	N		DATA ELINE NEW	[	]	*								
SUBSYSTI				804	M AND ' 5 E ANGL			SEM	BLY (F	LT [	DECK	TVC	)	
LEAD AN	ALY:	ST	:	W.C	. LONG									
ASSESSMI	ENT	:												
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM														
	1		W/FU		A		E	3	C	:				
NASA IOA	]	3	/3 /3	]	]	]	[	]	[	]		[	]	*
COMPARE	[		/	]	[	]	[	]	[	]		[	]	
RECOMMEN	IDA:	ric	ons:	(:	If dif	fer	ent fr	om 1	NASA)					
	[		/	΄]	Ι.	]	[	]	[	]	(A	-	] DELI	ETE )
* CIL RI	ETEI	NT:	ION	RATI	ONALE:	(I	f appl	.ical	A		JATE JATE	[ ]	х ј ]	
REMARKS: LOSS OF CRITICAL	ָטָטי.				CASE I		LURE M	IODE		~		•	IONS	3.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-804	45H		NASA DATA BASELINE NEW									
	COMM AND S 8045 WIDE ANGLI		SEMBLY (	FLT DECK	TVC)								
LEAD ANALYST:	W.C. LONG												
ASSESSMENT:													
CRITICALITY REDUNDANCY SCREENS CIL ITEM													
HDW/FU		В		<b>c</b> "	1111								
NASA [ 2 /2 IOA [ 3 /3	] [	] [	] [	]	[ X ] * [ ]								
COMPARE [ N /N	] [	1	] [	1	[и]								
RECOMMENDATIONS:	(If dif	ferent fr	om NASA)	)									
[ /	] [	] [	] [	] (A	[ ] .DD/DELETE)								
* CIL RETENTION	RATIONALE:	(If appl		ADEQUATE NADEQUATE	-								
REMARKS: NORMALLY USED FO BAY USE WOULD UF	R INTERNAL GRADE CRIT	SCENES W	HICH IS O COVER	NOT CRITI	CAL. CARGO E CONDITION.								

ASSESSMENT DATE: 3/05/88  ASSESSMENT ID: COMTRK-8045I  NASA FMEA #: 4.3.6.4  SUBSYSTEM: COMM AND TRACK													}	
SUBSYSTE MDAC ID: ITEM:				8045				SEMB	LY (F	LT DE	CK T	TVC)		
LEAD ANA	LYS	T:		W.C.	LONG									
ASSESSME	NT:													
				ITY	R	EDUNE	ANCY	SCR	EENS			CIL		
			JIGH /FU		A		В		c	:		IIL	rı	
NASA IOA	]	2	/2 /3	]	[	]	[	]	[	]		[ X	] ;	•
COMPARE	[	N	/N	]	[	]	[	]	[	]		[ N	]	
RECOMMEN	DAT	'IC	ns:	(II)	dif	feren	nt fr	om N	ASA)					
	C		1.	3	[	]	[	]	[	]	(AI	[ DD/D	] ELET	E)
* CIL RE		TI	ON :	RATION	VALE:	(If	appl	icab	P	DEQUA		[ X	]	
REMARKS: NORMALLY BAY USE	US	EI	FO:	R INTI	RNAL CRIT	SCEN ICALI	ES W	HICH O CO	IS N	OT CE	RITIC	CAL.	CA NDIT	ARGO

ASSESSMEN ASSESSMEN NASA FME	NT	II	<b>):</b>	COM	5/88 TTRK-804	15J					DATA: LINE NEW	[	x	]	
SUBSYSTEM MDAC ID:	M:			804	IM AND 1 5 DE ANGLI			SEMI	BLY (F	LT C	ECK 1	ľVC	<b>:</b> )		
LEAD ANA	LYS	<b>3T</b> :	:	W.C	. LONG										
ASSESSME	NT:	:													
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM															
	FLIGHT HDW/FUNC A B C													•	
NASA IOA	[ [	3	/3 /3	]	[	]	]	[	]		]	X	]	*	
COMPARE	[		/	]	[	]	[	]	ι	]		[	N	]	
RECOMMEN	'DA'	ΓI	ons:	;	(If dif	fer	ent fr	om 1	NASA)						
•	[		/	]	[	]	[	]	[	3	(A)	] ,dd	/D	ELJ ]	ETE)
		NT	ION	RAT	IONALE:	(I	f appl	ica	P		JATE JATE	[	x	]	
REMARKS: LOSS OF		ТP	UT :	IN A	GREEMEN	т.									

ASSESSME ASSESSME NASA FME	ENT	I	D:	COMTE	COMTRK-8045K BASELINE [ ]											
SUBSYSTE MDAC ID:				COMM 8045 WIDE				SSEMB:	<b>ĽY (</b> 1	FLT D	ECK T	rv(	2)			
LEAD ANA	LYS	T	:	W.C.	LONG											
ASSESSME	ENT:															
	CRI	-	ICAL LIGH	ITY T	R	EDUND	ANC	SCR	EENS				IL TEI	M		
	H	IDV	/FU	NC	A		I	3	(	2						
NASA IOA	[	3 3	/3 /3	]	]	]	[	]	]	]		]	X	]	*	
COMPARE	C		/	]	[	]	[	]	[	]	*	[	N	]		
RECOMMEN	IDAT	'IC	ons:	(If	dif	feren	t fi	om N	ASA)							
	[		/	]	[	]	[	]	[	. ]	(AI		/DI		ETE)	
* CIL RE		ני <b>ד</b> י)	CON I	RATION	ALE:	(If	app]	licab	7		ATE ATE	[	x	]		
LOSS OF		'n	JT I	N AGRE	EMENT	г.										

ASSESSME	ASSESSMENT DATE: 3/05/88  ASSESSMENT ID: COMTRK-8045L  NASA FMEA #: 5.3.6.1  SUBSYSTEM: COMM AND TRACK  NASA DATA: BASELINE [ ] NEW [ X ]													
SUBSYSTEMDAC ID:	M:			8045			K NS AS	SEMB	BLY (F	'LT D	ECK '	TVC)		
LEAD ANA	LYS	ST	:	W.C.	LONG									
ASSESSME	ASSESSMENT:													
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM														
	F			NC	A		В		C	:				
NASA IOA	[	2	/2 /3	]	[	]	[	]	[	]		[ ]	* ] *	
COMPARE	[	N	/N	]	[	]	[	1	[	]		[ ]	[ ]	
RECOMMEN	DA:	ΓI	ons:	(I	f dif	fere	nt fr	om N	IASA)					
	[		/	]	[	]	[	]	[	]	(A	[ DD/I	] DELET	E)
* CIL RE	TEI	NT:	ION	RATIO	NALE:	(If	appl	icak	7	ADEQU ADEQU		-	[ ]	
REMARKS: NORMALLY BAY USE	U: IOW	SEI ULI	D FO	R INT	ERNAL CRIT	SCE	NES W	HICH O CC	I IS I	OT C	RITI CAS	CAL. E C	, CA	RGO ION.

ASSESSME ASSESSME NASA FME	NT	II		N	ASA I BASEI		[	]						
SUBSYSTE MDAC ID:				COMM 8045 WIDE					LY (F		ECK :	rvc)		
LEAD ANA	LYS	ST	:	W.C.	LONG									
ASSESSME	SSESSMENT:													
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM														
	I		N/FU		A		В	i	C		1 1.551	111	ırı	
NASA IOA	[	2	/2 /3	]	[ [	]	[	]	[	]		K ]	]	*
COMPARE	[	N	/N	]	[	]	[	]	[	]		[ N	]	
RECOMMEN	'DA'	ric	ONS:	(If	dif	ferer	nt fr	om N	'ASA)					
	[		/	]	Γ	]	[	]	[	]	(AI	[ DD/I	] ELE	TE)
* CIL RE	TEI	YT.	ION	RATION	IALE:	(If	appl	icab	A	DEQU <i>I</i> DEQU <i>I</i>		K ]	[ ]	
REMARKS: NORMALLY BAY USE														ARGO

ASSESSMENT DAT ASSESSMENT ID: NASA FMEA #:	2: 3/05/88 COMTRK- 5.3.6.3	8045N			A DATA: SELINE [ NEW [	x ]
SUBSYSTEM: MDAC ID: ITEM:	COMM AND 8045 WIDE AND			BLY (FLT	DECK TVO	<b>:</b> )
LEAD ANALYST:	W.C. LO	NG				
ASSESSMENT:						
CRITIC FLI HDW/	SHT	REDUNI A	DANCY SC B	REENS	CI	L EM
NASA [ 3 /	3 ] [	]	[ ]	[ ]	[	] * ]
COMPARE [ /	] [	]	[ ]	[ ]	[	]
RECOMMENDATION	S: (If d	iffere	nt from	NASA)		
[ /	] [	]	[ ]	[ ]	[ (ADD/	DELETE
* CIL RETENTIO	N RATIONAL	E: (If	applica	ADE	QUATE [ QUATE [	x ]

LOSS OF OUTPUT CRITICALITY IN AGREEMENT.

ASSESSME ASSESSME NASA FME	NT	II	<b>)</b> :	3/05 COMT 5.3.	RK-804	150			I	NASA BASE	DATA LINE NEW	[	) X ]	
SUBSYSTE MDAC ID: ITEM:				COMM 8045 WIDE			AS	SEMBI	.Υ (]	FLT D	ECK '	rvc)	)	
LEAD ANA	LY	ST	:	W.C.	LONG									
ASSESSME	NT	:												
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM														
	1		V/FU		A	В	,	C	<b>C</b>		111	3M		
NASA IOA	[	3	/3 /3	]	[	]	[	]	[	]		[	]	*
COMPARE	[		1	]	[	]	[	]	(	]		[	]	
RECOMMEN	DA!	ri(	ONS:	(I	f diff	ferent	fr	om NA	SA)					
	[		/	]	[	]	[	1	[	]	(A	[ DD/1	DELI	ETE)
* CIL RE		NT:	ION	RATIO	NALE:	(If a	ppl	icabl	1	ADEQU ADEQU			X ]	
LOSS OF	OU	ΓP	JT (	RITIC	ALITY	IN AG	REE	MENT.						

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8046 2.3.6.2	NASA DATA: BASELINE [ ] NEW [ X ]									
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRA 8046 WIDE ANGLE I		(FLT DECK	TVC)							
LEAD ANALYST:	W.C. LONG										
ASSESSMENT:											
CRITICAL FLIGH	T	NDANCY SCREE		CIL ITEM							
HDW/FU		В	С								
NASA [ 2 /2 IOA [ 3 /3	] [ ]	[ ]	[ ]	[ X ] * [ ]							
COMPARE [ N /N	] [ ]	[ ]	[ ]	[ N ]							
RECOMMENDATIONS:	(If differ	ent from NAS	SA)								
[ /	] [ ]	[ · ]	[ ] (A)	[ ] DD/DELETE)							
* CIL RETENTION	RATIONALE: (I	f applicable	e) ADEQUATE INADEQUATE	[ X ]							

LOSS OF OUTPUT CRITICALITY IN AGREEMENT.

COMTRK-8	3046A		ŀ	BASELI	NE [	k ]
8046		ASSEMB	LY (I	FLT DEC	K TVC)	)
W.C. LON	1G					
HT		NCY SCR B		:	CII	
] [	]	[ ]	]	]	[ 2	<pre></pre>
· ) [	]	[ ]	[	1	[ 1	1 ]
: (If di	fferent	from N	ASA)			
] [	. ]	[ ]	[.	]	[ (ADD/I	] DELETE)
RATIONALE	E: (If a	pplicab	A		_	K ]
	2.3.8.1  COMM AND 8046 WIDE AND W.C. LON ALITY SHT FUNC 2 ] [ 3 ] [ 5: (If di	COMTRK-8046A 2.3.8.1  COMM AND TRACK 8046 WIDE ANGLE LENS W.C. LONG  ALITY REDUNDA SHT TUNC A  2 ] [ ] 3 ] [ ] 5: (If different ] [ ]	COMTRK-8046A 2.3.8.1  COMM AND TRACK 8046 WIDE ANGLE LENS ASSEMB W.C. LONG  ALITY REDUNDANCY SCR FIT FUNC A B  2 ] [ ] [ ] 3 ] [ ] [ ] 5: (If different from N ] [ ] [ ]	COMTRK-8046A 2.3.8.1  COMM AND TRACK 8046 WIDE ANGLE LENS ASSEMBLY (I W.C. LONG  ALITY REDUNDANCY SCREENS SHT TUNC A B C 2 ] [ ] [ ] [ 3 ] [ ] [ ] [ 5: (If different from NASA)	COMTRK-8046A BASELI 2.3.8.1 N  COMM AND TRACK 8046 WIDE ANGLE LENS ASSEMBLY (FLT DEC W.C. LONG  ALITY REDUNDANCY SCREENS SHT FUNC A B C  2 ] [ ] [ ] [ ] 3 ] [ ] [ ] 5: (If different from NASA)  ] [ ] [ ] [ ] 4 RATIONALE: (If applicable) ADEQUAT	COMTRK-8046A BASELINE [ 2.3.8.1 NEW [ 2.3.8.

LOSS OF OUTPUT CRITICALITY IN AGREEMENT.

ASSESSMEN ASSESSMEN NASA FME	I Tr	D:	3/05 COMT: 3.3.	RK-80	46B	NASA DATA: B BASELINE [ ] NEW [ X ]								
SUBSYSTEM MDAC ID:			8046	AND '		K NS AS	SEMB	LY (F	LT D	ECK :	rvc	)		
LEAD ANA	LYST	:	w.c.	LONG										
ASSESSMENT:														
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM														
FLIGHT HDW/FUNC A B C														
NASA IOA	[ 3 [ 3	/3 /3	]	[ [	]	[	]	[	]		[	]	*	
COMPARE	ſ	/	]	[	]	[	]	[	]		[	]		
RECOMMEN	DATI	ons:	(I	f dif	fere	ent fr	om N	IASA)						
	[	/	]	[	]	[	]	[	]	(A		DELE	TE)	
* CIL RE	(ADD/DELETE)  * CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]													
REMARKS: PHYSICAL FUNCTION	INADEQUATE [ ]													

	ASSESSMI ASSESSMI NASA FMI	ENT ]	D:	COMI	'RK-80	046C			1	NASA BASE	LINE	[		
	SUBSYSTI MDAC ID: ITEM:			8046	i		ek Ens as	SEMB	SLY (1	FLT D	ECK	TVO	2)	
	LEAD AND	ALYSI	<b>!:</b>	W.C.	LONG	3								
	ASSESSMI	ENT:												
					F	REDUN	IDANCY	SCR	EENS			C]	IL TEM	
CRITICALITY REDUNDANCY SCREENS FLIGHT HDW/FUNC A B C												11	LM	
	NASA IOA	[ 3	3 /3	]	[	]	[	]	[	]		[	] ;	*
	COMPARE	C	/	]	[	]	Į.	]	[	]		[	]	
	RECOMMEN	NDATI	ons:	(I	f dif	fere	nt fr	om N	ASA)					
		(	/	]	[	]	[	]	[	]	(A		DELET	re;
	* CIL RI	ETENI	NOI	RATIO	NALE:	(If	appl	icab	•					
										ADEQUA ADEQUA			x ]	
	REMARKS: PHYSICAL FUNCTION	BIN							ST CA	ASE LO	oss (	OF	CCTV	

ASSESSME ASSESSME NASA FME	NT :	ID:		K-80	46D			N	BASEL		[	x	]	
SUBSYSTE MDAC ID:			COMM 8046 WIDE				SEMB	LY (F	'LT DE	CK T	ľVC	:)		
LEAD ANA	LYS	T:	W.C.	LONG										
ASSESSME	ASSESSMENT:													
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM														
CKIII CADIII												Li.	•	
NASA IOA	[ :	2 /2 3 /3	]	[	]	[	]	[ [	]		[	X	]	*
COMPARE	[ ]	n /n	]	[	]	[	]	[	]		[	N	]	
RECOMMEN	DAT:	ions:	(I:	f dif	ferer	nt fi	com N	ASA)						
	[	/	1 .	[	]		. ]	(	]	(Al	] \QQ	'DE	] ELE	ETE)
* CIL RE		TION	RATIO	NALE:	(If	app]	licab	7	ADEQU <i>I</i> ADEQU <i>I</i>			x	]	
REMARKS: NORMALLY BAY USE	US	ED FO	R INT	ERNAI CRIT	SCEN	NES V	WHICH	IS N	NOT CE	CAS:	CAI E C		CDI	CARGO

ASSESSME ASSESSME NASA FME	NT II	<b>):</b>	COMTR	K-80	46E			NASA DATA: BASELINE [ ] NEW [ X ]				
SUBSYSTE MDAC ID: ITEM:	M:		COMM 2 8046 WIDE 2				SEMBL	/ (F	LT DECK	TVC)		
LEAD ANA	LYST:	•	W.C. 1	LONG								
ASSESSME	NT:											
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM												
			IC	A		В		С		1151	1	
NASA IOA	[ 2 [ 3	/2 /3	]	[	]	[	]	[	]	[ X	] *	
COMPARE	[ N	/N	]	[	]	[	]	[	]	[ N	]	
RECOMMEN	DATIC	ons:	(If	dif	ferent	t fro	om NAS	SA)				
	[	/	]	<b>.</b>	.]	[	]	[	]	[ ADD/DI	] ELETE)	
* CIL RE	TENTI	ON F	RATION	ALE:	(If a	appli	cable	Al	DEQUATE DEQUATE			
NORMALLY BAY USE												

	NT ID:	3/05/88 COMTRK-8 5.3.6.2	3046F					ATA: INE [ NEW [ ]	x ]			
SUBSYSTE MDAC ID:		COMM AND 8046 WIDE AND			SEMB]	LY (F	LT DE	CK TVC	)			
LEAD ANA	LYST:	W.C. LON	1G									
ASSESSME	ASSESSMENT:											
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM												
		<b></b>										
NASA IOA		] [	]	[ [	]	[	]		X ] *			
COMPARE	[ N /N	] [	1	[	]	[	]	[	N ]			
RECOMMEN	DATIONS	(If d	ifferer	nt fr	om N	ASA)						
	[ /	] [	]	[	] .	נ	. ]		] DELETE	)		
		RATIONALI	E: (If	appl	icab	A	DEQUA		x ]			
REMARKS: NORMALLY BAY USE	USED F	OR INTERNA	AL SCEN	NES W	O CO	IS N VER W	OT CR	ITICAL CASE C	. CAR ONDITI	GO ON.		

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:		COMTRK-8046G BASELIN							
	COMM AND 8046 WIDE ANGL		ASSEMBL	Y (FLT DE	CK TVC)				
LEAD ANALYST:	W.C. LONG								
ASSESSMENT:									
CRITICAL		EDUNDAN	CY SCRE	ENS	CIL ITEM				
FLIGH HDW/FU	IIEM								
NASA [ 2 /2 IOA [ 3 /3	] [	] [	]	[ ]	[ X ] *				
COMPARE [ N /N	] [	] [	]	[ ]	[ N ]				
RECOMMENDATIONS:	(If dif	ferent	from NA	SA)					
[ /	] - [	] [	. ]	[ ]	[ ] (ADD/DELETE)				
* CIL RETENTION REMARKS:	RATIONALE:	(If ap	plicabl	e) ADEQUA INADEQUA					
NORMALLY USED FO BAY USE WOULD UP									

ASSESSME ASSESSME NASA FME	NT	I	D:	3/05/88 COMTRK-8047 2.3.6.1 COMM AND TRACK						VASA BASE	LINE	: [ [ X	•	
SUBSYSTE MDAC ID:				8047				SEMB	SLY (N	MID D	ECK '	TVC)		
LEAD ANA	LYS	T	:	W.C.	LONG	;								
ASSESSME	NT:	;												
	CRI		ICAL LIGH		F	REDUN	DANCY	SCR	EENS			CIL		
	F		W/FU		P	<b>A</b>	E	3	(	2		114	F <b>1</b>	
NASA IOA	[	2	/2 /3	]	[	]	]	]	[	]		[ X	] *	
COMPARE	[	N	/N	]	[	]	[	]	[	]		[ N	]	
RECOMMEN	DA'I	ľI	ons:	(I	f dif	fere	nt fr	om N	ASA)					
	[		/	]	[	]	[	]	[	]	(A	[ DD/D	] ELETE	)
* CIL RE		<b>1</b> T	ION	RATIO	NALE:	(If	appl	licab	7	ADEQU.		[ X	]	
REMARKS: NORMALLY BAY USE	US													

ASSESSME ASSESSME NASA FME	NT I	D:	3/05/ COMTE 2.3.6	K-80	47A			N	ASA I BASEI		[	]	
SUBSYSTE MDAC ID: ITEM:			COMM 8047 WIDE				SEMB	LY (M	IID DI	ECK 1	TVC)		
LEAD ANA	LYSI	<b>:</b>	W.C.	LONG									
ASSESSME	NT:												
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM													
	_	W/FU		A		F	3	C				•	
NASA IOA	[ 2	/2	]	[	]	[	]	[ [	]		[ X	] <b>*</b>	
COMPARE	[ N	/N	]	[	]	[	]	[	]		[ N	]	
RECOMMEN	DATI	ons:	(I	f dif	fere	nt fi	om N	IASA)					
	[	/	]	[	]	[	]	[	]	(AI	[ DD/D	] ELETE)	)
* CIL RE	TENI	CION	RATIO	NALE:	(If	app]	licab	I	ADEQUA		[ X	]	
REMARKS: NORMALLY BAY USE	USI WOUI	ED FO	R INT	ERNAI CRII	SCE	NES V	WHICH	I IS N	OT C	RITIC CASI	CAL.	CARO NDITIO	

3/05/88 NASA DATA: COMTRK-8047B BASELINE [ 2.3.6.3 NEW [ X							
8047		SEMBLY	(MID DE	CK TVC)			
W.C. LONG							
IT				CIL ITEM			
INC A	. <b>E</b>	3	С				
] [	] [	]	[ ]	[ ] *			
] [	] [	]	[ ]	[ ]			
(If dif	ferent fr	om NA	SA)				
] [	.] . [	]	[ ]	[ ] (ADD/DELETE			
RATIONALE:	(If appl	icable.	e) ADEQUA' INADEQUA'				
	COMTRK-80 2.3.6.3  COMM AND 8047 WIDE ANGL W.C. LONG  LITY R HT JNC A  ] [ ] [ ] [ ] [	COMTRK-8047B 2.3.6.3  COMM AND TRACK 8047 WIDE ANGLE LENS AS W.C. LONG  LITY REDUNDANCY IT JNC A E  ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]	COMTRK-8047B 2.3.6.3  COMM AND TRACK 8047 WIDE ANGLE LENS ASSEMBLY W.C. LONG  LITY REDUNDANCY SCREIN IT INC A B  [	COMTRK-8047B 2.3.6.3  COMM AND TRACK 8047 WIDE ANGLE LENS ASSEMBLY (MID DEA W.C. LONG  LITY REDUNDANCY SCREENS HT JNC A B C  [ ] [ ] [ ] [ ]			

LOSS OF OUTPUT AGREEMENT.

ASSESSME NASA FME	17C			1	BASE	LINE	[ x	]					
SUBSYSTE	M:		COMM 8047	AND !	TRACK				,				
ITEM:			WIDE	ANGL	E LEN	S AS	SEMB	ĽY (1	MID D	ECK !	rvc)		
LEAD ANA	LYS	T:	W.C.	LONG									
ASSESSME	NT:												
		TICAL		RI	EDUND	ANCY	SCR	EENS			CIL		
		FLIGH DW/FU		A	E	3	(	2	ITE	M			
NASA IOA	[	3 /3 3 /3	]	[	]	[	]	[	]	•	[	]	*
COMPARE	[	/	1	[	]	[	]	[	]		[	]	
RECOMMEN	DAT	ions:	(If	dif	feren	t fr	om N	ASA)					
	[	/	J <sub>.</sub> .	[	]	(	]	[	]	(A)	[ DD/D	] ELE	TE)
* CIL RE	TEN	TION 1	RATION	IALE:	(If	appl	icab:	1	ADEQU ADEQU			]	
REMARKS:		ntim 3.	CDEENS	e NTCT				1112		• • • •	L	J	
LOSS OF	OUL	PUT A	GKEEMI	PIAT .									

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:		OMTRK-8047D BASELINE [ ]								
	COMM AND 8047 WIDE ANGL		SSEMBLY	(MI	D DECK	TVC)				
LEAD ANALYST:	W.C. LONG									
ASSESSMENT:										
CRITICAL FLIGH	ITY R	EDUNDANC	SCREE	ens		CIL	wr			
HDW/FU		. 1	В	C		1156				
NASA [ 3 /3 IOA [ 3 /3	] [	] [	]	[	]	[	] <b>*</b>			
COMPARE [ /	] [	] [	]	[	]	[	]			
RECOMMENDATIONS:	(If dif	ferent f	rom NAS	SA)						
[ /	] [	] [	]	[	] (A	[ DD/D	] ELETE)			
* CIL RETENTION	RATIONALE:	(If app	licable	AL	EQUATE					
REMARKS: LOSS OF OUTPUT W CRITICALITIES IN			MODE CO			•	-			

ASSESSME ASSESSME NASA FME	NT I	D:	3/05, COMTI 3.3.	RK-804	17E	NASA DATA: BASELINE [ ] NEW [ X ]							
SUBSYSTEMDAC ID:	м:		COMM 8047	AND T			SCFMR	T.V (N	ים מדו	ECK '	rvc)		
ITEM:		_			s tien	o Ac	, CEND	DI (I	110 0	LOIC .	110,		
LEAD ANA	LYST	<b>:</b> :	W.C.	LONG									
ASSESSME	NT:												
			YTI	RI	EDUND	ANC	SCR	EENS			CII		
		LIGH W/FU	T NC	. <b>A</b>		I	ВС				ITEM		
NASA IOA	[ 3	3 /3	]	[	]	[	]	[	]		[	] *	
COMPARE	[	/	]	[	3	[	]	C	]		[	]	
RECOMMEN	DAT	cons:	(I	f dif	feren	t fi	com N	ASA)					
	[	/	]	[	]	[	]	[	] .	(A	[ DD/E	] ELETE)	
* CIL RE	TENT	rion	RATIO	NALE:	(If	app]	licab	1	ADEQU. ADEQU.		[ X ]	[ ] ]	
REMARKS: LOSS OF	OUT	PUT W	ORST	CASE 1	FAILU	RE I	MODE	COVE	RS AL	L FU	NCTI	ONS.	

CRITICALITIES IN AGREEMENT.

ASSESSMENT DATE: 3/05/88 ASSESSMENT ID: COMTRK-8047F NASA FMEA #: 3.3.6.4									N	IASA I BASEI		[		
SUBSYSTEM MDAC ID:	M:			804	M AND ' 7 E ANGL			SEMB	LY (N	IID DI	ECK T	rvc)		•
LEAD ANA	LYS	ST	:	W.C	. LONG									
ASSESSME	NT	:												
	CR:			ITY	R	EDUN	IDANCY		CII					
	FLIGHT HDW/FUNC					C A			(	3		J		
NASA IOA	[	3	/3 /3	]	[	]	[	]	[	[ ]		[	]	*
COMPARE	[		/	)	[	]	[	3	[	]		[	]	
RECOMMEN	'DA'	ΓI	ons:	: (	If dif	fere	ent fr	om N	IASA)					
	[		/	]	[	]	[	)		]	(A	[ DD/1	DEL!	ETE)
* CIL RE	TE:	NT	ION	RATI	ONALE:	(I:	f appl	.icak		ADEQU ADEQU			х ј ]	
REMARKS: LOSS OF CRITICAL	OU						LURE M	ODE	COVE	RS AL	L FU	NCT:	ION	s.

ASSESSMI ASSESSMI NASA FMI	ENT I	D:		K-80	47G			1	NASA DATA: BASELINE [ ] NEW [ X ]				
SUBSYSTIMDAC ID:			8047						MID DEC		e <del>v</del> olonie de de la		
LEAD AND	ALYST	·:	W.C.	LONG									
ASSESSMI	ENT:									**.*	nnuma aa n u a-		
		ICAL	ITY	R	EDUN	DANC	SCF	REENS		CII			
	_		NC	A		I	ВС			ITEM			
NASA IOA	[ 3	/3 /3	]	]	]	]	]	]	]	[ [	] <b>*</b>		
COMPARE	[	/	]	[	]	[	]	[	]	[	]		
RECOMME	NDATI	ons:	(If	dif	fere	nt fi	com N	(ASA)					
	[	/	]	[	]	[	]	[	1	[ (ADD/I	] DELETE)		
* CIL RI		ION 1	RATION	IALE:	(If	app]	licab	I	DEQUAT		( ) ]		
REMARKS: LOSS OF CRITICAL	OUTP					URE N	ODE	COVE	RSALL	FUNCTI	ONS.		

ASSESSMEI ASSESSMEI NASA FME	NT ID:		K-80	47H		NASA DATA: BASELINE [ ] NEW [ X ]					
SUBSYSTEM MDAC ID:	<b>M:</b>	COMM 8047 WIDE				SEMB	LY (N	IID DE	CK TVC)		
LEAD ANA	LYST:	W.C.	LONG								
ASSESSME	NT:										
•	CRITICA FLIG		R	EDUND	ANCY	SCR	EENS		CIL ITEM		
	HDW/F		A			ВС					
NASA IOA	[ 2 /2 [ 3 /3	]	[	]	[	]	[ [	]	[ X ] * [ ]		
COMPARE	[ N /N	]	[	]	[	3	[	1	[и]		
RECOMMEN	DATIONS	: (If	dif	feren	t fr	om N	ASA)				
	[ /	]	[	]	[	]	[	]	[ ] (ADD/DELETE)		
* CIL RE	TENTION	RATION	ALE:	(If	appl	icab	1	ADEQUA ADEQUA			
REMARKS: NORMALLY BAY USE								ITICAL. CARGO CASE CONDITION.			

ASSESSME ASSESSME NASA FME	NT	II	):	COMT	RK-80	47I		NASA DATA: BASELINE [ ] NEW [ X ]						
SUBSYSTE MDAC ID: ITEM:	M:			COMM 8047 WIDE			k Ns as	SEMB	LY (M	IID D	ECK !	rvc)		
LEAD ANA	LYS	5 <b>T</b> :	:	W.C.	LONG									
ASSESSME	NT:	:												
	CR			ITY	R	EDUN	DANCY	SCR	EENS			CIL	ч	
FLIGHT HDW/FUNC					A			}	C	:			•	
NASA IOA	[	2	/2 /3	]	[	]	[	]	[	]		[ X	] *	
COMPARE	[	N	/N	)	[	)	[	]	[	]		[ N	]	
RECOMMEN	DA!	rI(	ons:	(I	f dif	fere	nt fr	om N	IASA)					
	Ĺ		/	]	[	]	Ĺ	]	[	]	(A	[ DD/D	] ELETE)	<b>)</b> .
* CIL RE		NT:	ION	RATIO	NALE:	(If	appl	icab	Į	ADEQU ADEQU		-	]	
REMARKS: NORMALLY BAY USE	TI:	SE UL	D FO	R INT	ERNAL CRIT	SCE	NES W	HICH	I IS N	OT C	RITI CAS	CAL. E CO	CARO NDITION	ЭО . ИС

ASSESSME ASSESSME NASA FME	NT ID:	: cc	05/88 MTRK-80	)47J		NASA DATA: BASELINE [ ] NEW [ X ]						
SUBSYSTE MDAC ID: ITEM:	M:	80	OMM AND 047 IDE ANGI			SEMBI	LY (1	IID DE	ск т	VC)		
LEAD ANA	LYST:	W.	c. LONG	3								
ASSESSME	NT:											
	CRITIC		Z I	IDANCY	SCRE	EENS			CIL			
		GHT FUNC					2	I I IIM				
NASA IOA	[ 3 /	/3 ] /3 ]	[	]	] [	]	[ [	]		[ [	] *	
COMPARE	[ /	/ ]	[	]	[	]	[	]		[	]	
RECOMMEN	DATIO	NS:	(If di	ffere	ent fr	om N2	ASA)					
	[ /	/ ]	[	]	[	],	[	J	(AD	[ D/D	] ELETE)	
* CIL RE		ON RA	rionale:	appl	icab]	1	ADEQUA ADEQUA		[ X [	]		
REMARKS: LOSS OF		r in A	AGREEMEI									

ASSESSMEN ASSESSMEN NASA FME	NT I	D:		K-804	NASA DATA:  BASELINE [ ]  NEW [ X ]									
SUBSYSTEM MDAC ID: ITEM:	M:		COMM 8047 WIDE				SEMBL	Y (1	MID DE	CK 1	ľVC	 ()		
LEAD ANA	LYST	<b>':</b>	w.c.	LONG										
ASSESSME	NT:										-	-		
	F	CICAL CLIGHT	T	RE A	EDUND	ANCY B		CREENS				CIL ITEM		
NĀSĀ IOA		/3	]	[	]	[	]	[	]		[	:	] ; ]	k
COMPARE	[	/	)	[	]	[	]	[	1		[		]	
RECOMMEN	DATI	ONS:	(II	diff	feren	t fr	om NA	SA)						
	[	/	]	[	] .	[	}.	[	]	(Al	[ DD/	DE	] LE:	ΓE)
* CIL RE	TENI	NOI	RATION	VALE:	(If	appl	icabl.	1	ADEQUA ADEQUA		[	X	]	
REMARKS:														

LOSS OF OUTPUT IN AGREEMENT.

ASSESSME ASSESSME NASA FME	047L	NASA DATA: BASELINE [ ] NEW [ X ]							
SUBSYSTE MDAC ID:		COMM AND 8047 WIDE ANG			SEMBI	LY (N	MID DE	CK TVC).	
LEAD ANA	LYST:	W.C. LON	<b>i</b> G						
ASSESSME	NT:								
	CRITICAL		REDUND	ANCY	SCRI	EENS		CIL ITEM	
	FLIGH HDW/FU		A	В		C	2	IILM	
NASA IOA	[ 2 /2 [ 3 /3	] [	]	[	]	[	]	[ X ] * [ ]	
COMPARE	[ N /N	J [	)	[	]	[	]	[ N ]	
RECOMMEN	DATIONS:	(If di	.fferen	t fr	om NA	ASA)			
	[ /	] [	]	[	]	[	]	[ ] (ADD/DELETE)	
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]  REMARKS:									
NORMALLY		R INTERNA GRADE CRI				ITICAL. CARGO CASE CONDITION.			

ASSESSMENT DATE: 3/05/88 ASSESSMENT ID: COMTRK-804 NASA FMEA #: 5.3.6.4									N	IASA   BASE:		[	]	
SUBSYSTE MDAC ID: ITEM:				8047	AND '			SEME	BLY (N	IID D	ECK 1	rvc)		
LEAD ANA	LYS	ST	:	W.C.	LONG									
ASSESSMENT:														
	CRI		ICAL LIGH	ITY	R	EDUN	DANCY	SCF	REENS			CIL		
					В	ВС				222.				
NASA IOA	HDW/FUNC SA [ 2 /2 ] OA [ 3 /3 ]				[ [	]	[	]	[	]		[ X	] * ]	
COMPARE	[	N	/N	]	[	]	[	]	Ţ	]		[ N	]	
RECOMMEN	IDA'	ri(	ons:	(I	f dif	fere	nt fr	om N	IASA)					
	[		/	]	[	]	[	]	[	]	(Al	[ D/DC	] ELETE)	
* CIL RE		NT:	ION	RATIC	NALE:	(If	appl	icak	7	ADEQU ADEQU		[ X	]	
REMARKS: NORMALLY	. Us	SE)	D FO	R INT	ERNAL	SCE ICAL	NES W	HICH	H IS N	OT C	RITIC CASI	CAL. E CO	CARGO	) [.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-804 5.3.6.3	47N			A DATA: SELINE [ NEW [	
	COMM AND 1 8047 WIDE ANGLI		SEMBLY	(MID	DECK TV	C)
LEAD ANALYST:	W.C. LONG					
ASSESSMENT:						
CRITICALI FLIGHT		EDUNDANCY	SCREE	ens		IL TEM
HDW/FU	NC A	В	<b>,</b>	С		
NASA [ 3 /3 IOA [ 3 /3	] [	] [	]	[ ]	]	] * ]
COMPARE [ /	) [	] [	]	[ ]	[	
RECOMMENDATIONS:	(If dif	ferent fr	om NAS	SA)		
· [./	] [	] [	]	[ ]	] Ida)	] /DELETE
* CIL RETENTION I	RATIONALE:	(If appl	icable		] TAUÇ ] TAUÇ	x ]
LOSS OF OUTPUT CI	RITICALITY	IN AGREE	MENT.			

				NASA DATA: BASELINE [ ] NEW [ X ]						
8047			S AS	SEMBL	Y (M)	D DECE	TVC	)		
W.C. I	LONG									
	RE	EDUNDA	ИСА	SCRE	ENS					
	A		В		С					
]	[	]	[	]	[	]	[	] <b>*</b>		
1	[	1	[	]	[	1	[	]		
(If	diff	ferent	t fr	om NA	SA)					
3	[	]	[	]	[	]	[ (ADD/	] DELETE)		
		•			Al			<b>X</b> ]		
	8047 WIDE A W.C. I  LITY IT INC  ]  []  RATIONA	8047 WIDE ANGLE W.C. LONG  LITY RE IT INC A  ] [ ] [ ] [ ] [ RATIONALE:	COMM AND TRACK 8047 WIDE ANGLE LENS W.C. LONG  LITY REDUNDA TO A  [	COMM AND TRACK 8047 WIDE ANGLE LENS ASS W.C. LONG  LITY REDUNDANCY A B  [ ] [	COMM AND TRACK 8047 WIDE ANGLE LENS ASSEMBLY W.C. LONG  LITY REDUNDANCY SCREEN TO A B  [	COMM AND TRACK 8047 WIDE ANGLE LENS ASSEMBLY (MINE) W.C. LONG  LITY REDUNDANCY SCREENS HT ONC A B C  [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [	COMM AND TRACK 8047 WIDE ANGLE LENS ASSEMBLY (MID DECE W.C. LONG  LITY REDUNDANCY SCREENS IT UNC A B C  [ ] [ ] [ ] [ ]   [ ] [ ] [ ]   [ ] [ ]	COMM AND TRACK 8047 WIDE ANGLE LENS ASSEMBLY (MID DECK TVC) W.C. LONG  LITY REDUNDANCY SCREENS CITOR ONC A B C  [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [		

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-804 2.3.6.2	48	NASA DATA: BASELINE [ ] NEW [ X ]					
SUBSYSTEM: MDAC ID: ITEM:	COMM AND 18048 WIDE ANGLE		SEMBLY (	MID DECK T	TVC)			
LEAD ANALYST:	W.C. LONG							
ASSESSMENT:								
CRITICAL		EDUNDANCY	SCREENS	3	CIL ITEM			
FLIGH HDW/FU		В		C	112.			
NASA [ 2 /2 IOA [ 3 /3	] [	] [	] [	]	[ X ] *			
COMPARE [ N /N	] [	] [	] [	]	[ N ]			
RECOMMENDATIONS:	(If dif	ferent fr	om NASA	)				
[ /	] [	] [	] .[	] (A)	[ ] DD/DELETE)			
* CIL RETENTION	RATIONALE:	(If appl		ADEQUATE NADEQUATE	[ x ]			
REMARKS: NORMALLY USED FO BAY USE WOULD UP	R INTERNAL GRADE CRIT	SCENES WICALITY T	HICH IS O COVER	NOT CRITIC	CAL. CARGO E CONDITION.			

ASSESSMI ASSESSMI NASA FMI	ENT	I	D:	3/05 COMT 2.3	rk-80	48A		NASA DATA: BASELINE [ ] NEW [ X ]							
SUBSYSTI MDAC ID: ITEM:				8048	M AND B E ANGL			SEME	BLY (1	MID D	ECK T	rvc)			
LEAD ANA	LYS	ST	:	W.C	LONG	,									
ASSESSME	ENT	:													
	CRI		ICAL LIGH	ITY	R	EDUN	IDANCY	SCF	REENS			CIL ITEM			
	I			NC	A	•	В	<b>,</b>	(	3		TIEM			
NASA IOA	[	2	/2 /3	]	[	]	[	]	[	]		[ x ]	<b>*</b>		
COMPARE	[	N	/N	]	[	]	[	]	[	]		[ N ]			
RECOMMEN	IDA'	ΓI	ons:	(1	f dif	fere	ent fr	om N	(ASA)						
	[		/	]	Ţ	]	. [	]	[	]	(AI	[ ]			
* CIL RE	ETEN	1 <b>T</b> :	ION :	RATIO	NALE:	(If	appl	icab	·	DEQU DEQU	ATE ATE	[ X ]			
REMARKS: NORMALLY BAY USE	T US								I IS N	OT C	RITIC	CAL.	CARGO		

ASSESSME ASSESSME NASA FME	NT I	ID:	COM	TRK-804	8B				ASA I BASEI		[	x ]	
SUBSYSTEMDAC ID:	M:		804	M AND TI 8 E ANGLE		ASS	SEMB	LY (M	ID DI	ECK '	rvc	)	
LEAD ANA	LYS'	T:	W.C	. LONG									
ASSESSME	NT:											N	
CRITICALITY REDUNDANCY SCREENS CIL ITEM													
		FLIGH DW/FU		A		В		c	:		11	EM	
NASA IOA	[ :	3 /3 3 /3	]	[	]	[ [	]	[	]		[	]	*
COMPARE	[	/	]	[	]	<b>.</b>	]	[	]		[	]	
RECOMMEN	DAT	ions:	(	If diff	erent	fr	om N	ASA)					
	[	/	]	[	]	[	]	[	]	(A		DEL	ETE)
* CIL RE	TEN'	TION	RATI	ONALE:	(If a	ppl	icab	F	DEQUADEQUA		[	x ]	
REMARKS: PHYSICAL FUNCTION		NDING CRIT	/JAM	MING RE ITIES I	SULTS N AGR	IN EEM	WOR	ST C	SE L	oss	OF	CCT	V

ASSESSMI ASSESSMI NASA FMI	ENT	II	<b>):</b>		RK-804	18C	NASA DATA: BASELINE [ ] NEW [ X ]							
SUBSYSTI				8048				anun.	., /,		\BAV	mra\		
ITEM:				MIDE	ANGLI	s LEN	S AS	SEMBL	1) Y:	ATD I	DECK	TVC)		
LEAD ANA	LYS	T:	3	W.C.	LONG									
ASSESSME	ENT:													
			CAL LIGH	ITY	RI	DUND	ANCY	SCRE	ENS			CIL		
				NC	A	. 2		••						
NASA IOA	[	3	/3 /3	]	[	]	[	]	[	]		[	] *	r
COMPARE	[		/	]	[	]	[	]	ľ	]		[	]	
RECOMMEN	IDAT	ΊC	ons:	(I	f diff	eren	t fr	om NA	SA)					
	[		/	1,	. [	, <b>1</b> .	[	]	[	]	(A	[ DD/D	] ELET	E)
* CIL RE	ETEN	TI	ON :	RATIO	NALE:	(If a	appl	icabl	I	ADEQU ADEQU	JATE JATE	[ X	]	
REMARKS: PHYSICAL	BI								T C	ASE I	oss	OF C	CTV	

ASSESSME ASSESSME NASA FME	NT	II			RK-80	48D		NASA DATA: BASELINE [ ] NEW [ X ]							
SUBSYSTE MDAC ID:	M:			COMM 8048 WIDE			K NS AS	SEMB	BLY (N	ID D	ECK	TVC)			
LEAD ANA	LYS	ST	:	W.C.	LONG										
ASSESSME	NT:	:													
	CRI		CAL LIGH	ITY	R	EDUN	DANCY	SCR	REENS			CIL			
	F			ис	A		В		C	2			••		
NASA IOA	[ [	2	/2 /3	]	[ [	]	[	]	[	]		[ X	*		
COMPARE	[	N	/N	3	[	]	ſ	]	[	1		[ N	3		
RECOMMEN	DA'	ΓΙ	ONS:	(I	f dif	fere	nt fr	om N	IASA)						
•	[		/	]	[	]	[	]	[	]	(A	[ DD/D	] ELETE	)	
* CIL RE	TEI	NT:	ION	RATIO	NALE:	(If	appl	icab	7	ADEQU ADEQU		[ X	]		
REMARKS: NORMALLY BAY USE	ÜS												CAR NDITI		

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:		48E	BASELINE [ ] NEW [ X ]						
MDAC ID:	COMM AND 18048 WIDE ANGL		CCEMBI	v /wth n	יייייייייייייייייייייייייייייייייייייי				
ITEM:		E LENS A	SSEMDL	II (MID D	ECR IVC)				
LEAD ANALYST:	w.C. Long								
ASSESSMENT:					-				
CRITICAL: FLIGHT		EDUNDANC	Y SCRE	ENS	CIL ITEM				
HDW/FUI			В	C					
NASA [ 2 /2 IOA [ 3 /3	] [	] [	]	[ ]	[ X ] * [ ]				
COMPARE [ N /N	] [	] [	1	[ ]	[ N ]				
RECOMMENDATIONS:	(If dif	ferent f	rom NA	SA)					
[ /	] [	] [	]	[ ]	[ ] (ADD/DELETE)				
* CIL RETENTION 1	RATIONALE:	(If app	olicabl	e) ADEQU INADEQU					
REMARKS: NORMALLY USED FOR BAY USE WOULD UPO									

ASSESSME ASSESSME NASA FME	NT	I	D:	COMTR	COMTRK-8048F BASEL								]	
SUBSYSTE MDAC ID:				8048				SEMI	BLY (M	IID D	ECK	TVC)		
LEAD ANA	LY	ST	:	w.c.	LONG	;								
ASSESSME	ASSESSMENT:													
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM														
	]			NC									ri	
NASA IOA	[	2	/2 /3	]	[	]	[ [	]	[ [	]		[ X	] *	
COMPARE	[	N	/N	]	[	]	[	]	[	]		[ N	]	
RECOMMEN	DA'	ri	ons:	(If	dif	fere	nt fr	om 1	NASA)					
	[		/	]	[	)	[	]	Ţ	]	(A	[ DD/D	] ELETI	Ξ)
(ADD/DELETE)  * CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ] INADEQUATE [ ]														
REMARKS: NORMALLY BAY USE	-													RGO ION.

ASSESSME ASSESSME NASA FME	NT :	ID:	•	RK-80	)48G			ì	VASA BASE	LINE	: [ [ X	]	
SUBSYSTE MDAC ID: ITEM:	M:		COMM 8048 WIDE				SSEMB	LY (1	MID D	ECK 7	rvc)		
LEAD ANA	LYS'	T:	W.C.	LONG	}								
ASSESSME	NT:												
			LITY	F	REDUN	DANC	SCR	EENS			CIL	K	
		FLIGI DW/F		7	A	I	3	(	2		TIE	1	
NASA IOA	[	2 /2 3 /3	]	[	]	[	]	[	]		[ X	] * ]	
COMPARE	[	n /n	1	τ	]	ſ	3	[	]		[ N	]	
RECOMMEN	DAT	IONS	: (1	f di	ffere	nt fi	com N	ASA)					
	[	/	]	[	]	[	]	[	3	(Al	[ DD/DI	] ELETE	)
* CIL RE	TEN	TION	RATIO	NALE:	: (If	app:	licab	7	ADEQU ADEQU		[ X	]	
REMARKS: NORMALLY BAY USE	US WOU	ED F	OR INT	TERNAI	L SCE	NES I	WHICH	I IS I	NOT C	RITI(	CAL. E COI	CAR VDITI	

ASSESSME ASSESSME NASA FME	NT I	D:		RK-80	49			N	IASA BASE:	LINE		]	
SUBSYSTE MDAC ID: ITEM:	M:		8049			K SEMBL	Y (F	LT DE	CK T	VC)			
LEAD ANA	LYSI	<b>!:</b>	W.C.	LONG									
ASSESSME	NT:												
			ITY	R	EDUN	DANCY	SCF	REENS			CII		
	_	LIGH W/FU		A		В		C	:	IIEM			
NASA IOA	[ 3	/3	]	[	]	[	]	]	]		[	] *	t
COMPARE	[	/	]	[	1.	[	]	Ţ	3		[	]	
RECOMMEN	DATI	ONS:	(I	f dif	fere	nt fr	om N	IASA)					
	[	/	]	ι.	]	[	]	Ţ	]	(A	[ DD/I	] DELET	ſE)
* CIL RE	TENI	NOI	RATIC	NALE:	(If	appl	icak		DEOU	አጥሮ	rs	<i>7</i> 1	
									ADEQU. ADEQU.			, ]	
REMARKS: LOSS OF CRITICAL						URE M	ODE	COVE	RS AL	L FU	NCTI	ons.	•

ASSESSMEN ASSESSMEN NASA FME	NT I	D:	3/05/ COMTE 3.2.6			1	NASA D BASEI		[	_			
SUBSYSTEM MDAC ID:	M:		COMM 8049 COLOR				LY (F	'LT DI	ECK TV	<b>7</b> C)			
LEAD ANA	LYST	:	W.C.	LONG	;								
ASSESSME	NT:												
•		'ICAL 'LIGH	ITY	R	EDUN	DANCY	SCR	EENS			CII		
			NC	A		E	3	(	2		111	171	
NASA IOA	[ 3 [ 3	/3 /3	]	[	]	[	]	]	]		[	]	*
COMPARE	[	/	1	[	]	[	]	[	]		[	]	
RECOMMEN	DATI	ons:	(If	dif	fere	nt fr	om N	ASA)					
	[	1.	1	[	]	[	]	[	]	(Al	[ DD/D		ETE)
* CIL RE	TENT	ON	RATION	IALE:	(If	appl	.icab	7	ADEQUA ADEQUA				
REMARKS: LOSS OF C						URE M	ODE	COVE	RS ALI	, FUI	1CTI	ONS	;.

ASSESSMENT DATE ASSESSMENT ID: NASA FMEA #:		-8049B				SA DATA BASELINE NEW		]
SUBSYSTEM: MDAC ID: ITEM:	8049	ND TRACK LENS ASS		(FLI	DEC	CK TVC)		
LEAD ANALYST:	W.C. L	ONG						
ASSESSMENT:								
CRITICA		REDUND	ANCY	SCREE	ens		CIL	
FLIG HDW/F		A	В		C		110	
NASA [ 3 /3 IOA [ 3 /3	]	[ ]	[	]	[	]	[ [	] * ]
COMPARE [ /	]	[ ]	[	]	[	]	[	]
RECOMMENDATIONS	: (If	differen	t fr	om NAS	5A)			
[ /	1	[ ]	[	] .	[	] (A	[ .D/D	] ELETE
* CIL RETENTION	RATIONA	ALE: (If	appli	icable	ΑI	DEQUATE DEQUATE		]
REMARKS: LOSS OF OUTPUT CRITICALITIES 1			RE MO	DDE CO	OVERS	S ALL FU	NCTI	ons.

ASSESSME ASSESSME NASA FME	NT I	D:	COMTRI	ζ-804	49C			NASA DATA: BASELINE [ ] NEW [ X ]				
SUBSYSTEM MDAC ID: ITEM:			COMM A 8049 COLOR					T DE	CK TVC)			
LEAD ANA	LYST	:	W.C. I	LONG								
ASSESSME	NT:											
(		ICAL:	ITY	RI	EDUND	ANCY	SCRE	ENS		CIL		
			4C	A		В		c		TIE	M	
NASA IOA	[ 3 [ 3	/3 /3	]	[	]	[	]	[	]	[ [	] <b>*</b>	
COMPARE	ľ	/	]	[	]	[	]	[	]	[	]	
RECOMMENI	DATI	ons:	(If	difi	feren	t fr	om NA	SA)				
	[	/	]	[	] .	[	]	[	] . (2	[ ADD/D	] ELETE)	
* CIL RET	rent:	ION I	RATIONA	LE:	(If	appl:	icabl	À	DEQUATE DEQUATE		]	
LOSS OF C						RE MO	DDE C	OVER	S ALL FU	JNCTI	ons.	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-805	50		BA	SA DATA SELINE NEW	[	
SUBSYSTEM: MDAC ID: ITEM:	COMM AND T 8050 COLOR LENS		LY (FLI	DECE	( TVC)		
LEAD ANALYST:	W.C. LONG						
ASSESSMENT:							
CRITICAL: FLIGH	ITY RE	EDUNDANC	SCREE	ens		CI	
HDW/FU		1	В	С			<b></b>
NASA [ 3 /3 IOA [ 3 /3	] [	] [	]			[	] *
COMPARE [ /	] [	] [	]	[	1	Ţ	]
RECOMMENDATIONS:	(If diff	ferent f	rom NAS	SA)			
[ /	] [	] [	]	[ ]	] (A		] DELETE)
* CIL RETENTION	RATIONALE:	(If app	licable	ADI	EQUATE EQUATE	[ ]	<b>x</b> ]
REMARKS: PHYSICAL BINDING FUNCTIONS. CRIT	/JAMMING RI	ESULTS I	N WORST	CASI	E LOSS	OF	CCTV

ASSESSME ASSESSME NASA FME	NT :	ID:	COMT	COMTRK-8050A				NASA DATA: BASELINE [ ] NEW [ X ]					
SUBSYSTE MDAC ID: ITEM:			COMM 8050 COLO				LY (F	'LT D	ECK T	VC)			
LEAD ANA	LYS	r:	W.C.	LONG	3								
ASSESSME	NT:												
		FICAL FLIGH	ITY	I	REDUN	DANC	SCR	EENS			CII		
			NC	7	A	F	3	(	C		111	21.1	
NASA IOA	[ :	3 /3 3 /3	]	( (	]	[	]	[ [	]		[	]	*
COMPARE	[	/	]	(	]	[	]	ſ	]		[	]	
RECOMMEN	DAT:	ions:	(I	f di	fere	nt fi	om N	ASA)					
			]	[	]	[	]	[	]	(A		] DELE	
* CIL RE	TEN	rion	RATIO	NALE:	(If	app]	licab		ADEQU.	ATE	[ 3	<b>(</b> ]	
REMARKS: PHYSICAL FUNCTION									ADEQU. ASE L		-	_	
TOMOTHOM	•	~***			-41 23								

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:		51		SA DATA BASELINE NEW		]	
	COMM AND 3 8051 COLOR LENS		LY (MII	D DEC	CK TVC)		
LEAD ANALYST:	W.C. LONG						
ASSESSMENT:							
CRITICAL FLIGH	ITY RI	EDUNDANC	SCRE	ENS		CIL	
HDW/FU	NC A	I	3	С			
NASA [ 3 /3 IOA [ 3 /3	] [	] [	]	[	]	[	] * ]
COMPARE [ /	] [	] [	]	[	1	[	]
RECOMMENDATIONS:	(If dif:	ferent fi	com NA	SA)			
( /	1	] [	] .	Ĺ	] (A	[ DD/D	] ELETE)
* CIL RETENTION	RATIONALE:	(If app	licabl	ΑĽ	EQUATE	[ X	]
REMARKS: LOSS OF OUTPUT W CRITICALITIES IN			MODE C		~	•	ons.

ASSESSME ASSESSME NASA FME	NT I	D:	COMTE	K-80	51A			1	NASA I BASE	LINE		[ ]	
SUBSYSTE MDAC ID:			COMM 8051 COLOR					IID DI	ECK T	VC)			
LEAD ANA	LYSI	r:	W.C.	LONG	;								
ASSESSME	NT:												
		TICAL FLIGH		R	EDU	NDANC	Y SCR	EENS			CII		
			NC	A			В	(	C			111	
IOA	[ 3	3 /3	]	[	]	. [	]	[	]		[	]	*
COMPARE	[	/	]	[	]	. [	]	C	]		[	]	
RECOMMEN	DATI	cons:	(If	dif	fer	ent f	rom N	IASA)					
	[	!	1	[	]	. [,	]	[	]	(A	[ DD/I	] DELE	TE)
* CIL RE	TENT	rion	RATION	IALE:	(I	f app	licab	i	ADEQU ADEQU			۲ ] ا	
REMARKS: LOSS OF CRITICAL	OUTI					LURE :	MODE				-	_	

ASA

ASSESSME ASSESSME NASA FME	NT	ID:		RK-80	51B			N	IASA BASE		[	x ]	
SUBSYSTE MDAC ID: ITEM:	M:		8053			CK SEMBLY	<i>(</i> 1	MID DE	CK T	VC)			
LEAD ANA	LYS	ST:	W.C.	LONG									
ASSESSME	NT:	:											
	CR]	TICAI FLIGH		R	EDUN	IDANCY	sci	REENS			CI IT		
	F	IDW/FC	ЛС	A		В		C	:				
NASA IOA	[	3 /3 3 /3	]	[	]	]	]	[ [	]		]	]	*
COMPARE	[	/	1	[	]	[	]	[	]		[	]	
RECOMMEN	DAT	CIONS:	: (:	f dif	fere	ent fro	om 1	NASA)					
	[	/	]	[	]	[.	]	[	]	(A	[ DD/	DELE	ETE)
* CIL RE	TEI	NTION	RATIO	ONALE:	(I1	appl	ical	7	DEQU.			x ]	
REMARKS: LOSS OF CRITICAL		-				LURE MO	DDE	COVE	RS AL	L FUI	NCT	IONS	5.

ASSESSME ASSESSME NASA FME	NT :	ID:	3/05 COMT 3.2.	RK-80	51C			NASA DATA: BASELINE [ ] NEW [ X ]					
SUBSYSTE MDAC ID: ITEM:	M:		8051	AND R LEN			LY (M	IID DÎ	еск т	VC)			
LEAD ANA	LYS	r:	W.C.	LONG									
ASSESSME	NT:												
		TICAL		R	EDUN	DANCY	SCR	REENS			CII		
		FLIGH DW/FU	NC	A	•	E	3	(	2		111	111	
NASA IOA	[ :	3 /3 3 /3	]	[	]	[	] ]	[ [	]		[	] *	
COMPARE	[	/	]	[	]	[	]	Į	]		[	]	
RECOMMEN	DAT:	ions:	(I	f dif	fere	nt fr	om N	IASA)					
	[	/	1	[ -	]	[	· ]	٤.	]	(A	[ DD/[	] DELETE)	
* CIL RE	TEN'	TION	RATIC	NALE:	(If	appl	licab	7	ADEQU ADEQU			( ] ]	
REMARKS:	OUT	PUT W	ORST	CASE	FAII	URE N	ODE	COVE	RS AL	L FU	NCTI	ONS.	

CRITICALITIES IN AGREEMENT.

ASSESSMENT DA ASSESSMENT ID NASA FMEA #:	: COMTR	K-8052				ATA: INE [ NEW [	x ]
SUBSYSTEM: MDAC ID: ITEM:	8052	AND TRAC		(MID	DECK TV	'C)	
LEAD ANALYST:	W.C.	LONG					
ASSESSMENT:							
	CALITY	REDUN	DANCY S	SCREE	NS	CI	IL PEM
	/FUNC	A	В		С		
NASA [ 3 IOA [ 3	/3 ] /3 ]	[ ]	[	]	[ ]	]	] * ]
COMPARE [	/ ]	[ ]			[ ]	[	]
RECOMMENDATIO	NS: (If	differe	nt from	m NAS	A)		
	/ ]	[ ]	[	]	[ ]		] 'DELETE)
* CIL RETENTI	ON RATION		appli		) ADEQUA INADEQUA	•	x ]
REMARKS: PHYSICAL BIND FUNCTIONS. C	OING/JAMMI CRITICALIT	NG RESUL	TS IN V	WORST	_	•	CCTV

ASSESSME ASSESSME NASA FME	NT	ŢI	<b>):</b>	COM	COMTRK-8052A					NASA DATA: BASELINE [ ] NEW [ X ]						
SUBSYSTE MDAC ID: ITEM:				805				LY (M	ום סוו	eck t	VC)					
LEAD ANA	LYS	T	:	W.C	. LONG											
ASSESSME	NT:												.1			
	CRI		ICAL LIGH	YTI	R	EDUI	NDANCY	SCR	EENS			CII	_			
	H			NC	A		I	3	(	2		*11	3171			
NASA IOA	[	3	/3 /3	]	[	]	[	]	[	]		[	]	*		
COMPARE	[		/	]	[	]	[	Ĵ	Į	]		[	]			
RECOMMEN	<b>LA</b> D	CIC	ons:	(	If dif	fere	ent fi	om N	IASA)							
	ĺ		/	]	[	]	ſ	]	[	]	(A	[ DD/I	] DELE	TE)		
* CIL RE	TEN	T	ION	RATI	ONALE:	(I:	f app]	licab	7	ADEQU ADEQU						
REMARKS: PHYSICAL FUNCTION	BI	NI (	DING CRIT	/JAM	MING R ITIES	ESU!	LTS IN AGREEN	WOR	ST C	ASE L	oss	OF (	CTV	7		

NASA DATA:

ASSESSMENT DATE: 3/05/88

ASSESSMENT ID: NASA FMEA #:	COMTRK-8053 2.2.6.1		BASELINE NEW	[ x ]
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8053 COLOR LENS ASSE	EMBLY (TVC A)	ı	•
LEAD ANALYST:	W.C. LONG			
ASSESSMENT:				
CRITICAL FLIGH	ITY REDUNDA	ANCY SCREENS		CIL
	NC A	В	2	
NASA [ 2 /2 IOA [ 2 /1R	] [ ] ] [ P ]	[ ] [ I	e ]	[ X ] * [ X ]
COMPARE [ /N	] [N]	[и] [и	4 ]	[ ]
RECOMMENDATIONS:	(If different	from NASA)		
[ 2 /1R	[P]	[ P <sub>.</sub> ] [ 1	P ] (AI	[ ] DD/DELETE)
* CIL RETENTION	RATIONALE: (If a	1	ADEQUATE ADEQUATE	[ X ]
REMARKS: LOSS OF OUTPUT O CAPABILITY TO PE MONITORING P/L E VEHICLE AND CREW WINDOW VIEWING, JETTISON TO ALLO	RFORM CCTV FUNCT BAY DOOR LATCHES . UNLIKE CCTV I EVA AND COAS FOR	FION COULD PI RESULTING II REDUNDANCY E R CREW VISUA	REVENT RMS N POSSIBLI XISTS VIA L INSPECTI	S STOW AND E LOSS OF CREW ION AND RMS

ONLY WORST CASE CONDITION WAS ANALYSED.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8053A		NASA DATA BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:			C A)	
LEAD ANALYST:	W.C. LONG			
ASSESSMENT:				
	ITY REDUNE	DANCY SCRE	ENS	CIL
FLIGH HDW/FU	NC A	В	<b>c</b>	ITEM
NASA [ 2 /2 IOA [ 2 /1R	] [ ] ]	[ P ]		
COMPARE [ /N	] [и]	[ и ]	[ N ]	[ ]
RECOMMENDATIONS:	(If differen	nt from NA	SA)	
[ 2 /1R	] [P]	[ P ]	[ P ] (Al	[ ] DD/DELETE)
* CIL RETENTION	RATIONALE: (If	applicable	e) ADEQUATE INADEQUATE	[ X ]
REMARKS: LOSS OF OUTPUT CO CAPABILITY TO PER MONITORING P/L BE VEHICLE AND CREW	RFORM CCTV FUNC AY DOOR LATCHES . UNLIKE CCTV	TION COUL RESULTING REDUNDANC	AND MISSION. D PREVENT RMS G IN POSSIBLI Y EXISTS VIA	LOSS OF ALL S STOW AND E LOSS OF CREW

JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITIONS.

ONLY WORST CASE CONDITION WAS ANALYSED.

DATASSESSMENT DATE:	3/05/88		NASA	
ASSESSMENT ID: NASA FMEA #:	COMTRK-8053B 2.2.6.3		BASELINE NEW	[ x ]
	COMM AND TRACK 8053 COLOR LENS ASSE	MBLY (TVC A	)	
LEAD ANALYST:	W.C. LONG			
ASSESSMENT:				
CRITICAL	<b></b>	NCY SCREENS		CIL ITEM
FLIGHT HDW/FUI		В .	С	11111
NASA [ 3 /3 IOA [ 2 /1R	] [ ] ] ]	[ ] [ [ P ]	p ]	[ x ] *
COMPARE [ N /N	] [N]	[и]	N ]	[ N ]
RECOMMENDATIONS:	(If different	from NASA)		
[ /	] [ ]	ָנ ז <sub>.</sub> נ	] (AI	[ ] DD/DELETE)
* CIL RETENTION	RATIONALE: (If a		ADEQUATE IADEQUATE	
REMARKS: LOSS OF OUTPUT P	ROVIDES WORST CA	SE CONDITION	N. LOSS	OF SYNC NOT
ANALYSED. WINDOW VIEWING, JETTISON TO ALLO ONLY WORST CASE	W P/L BAY DOOR (	CLOSURE. WC	L INSPECTI PRST CASE (	ON AND RMS

			NEW	[ X ]				
8053		Y (TVC A	<b>v</b> )					
W.C. LONG								
1	DUNDANCY	SCREENS		CIL ITEM				
IC A	· <b>E</b>	•	C					
] [ ] [ P	] [ P	] [	P ]	[ X ] *				
] [ N	] [ N	] [	и ]	[ N ]				
(If diff	erent fr	om NASA)						
] [	] [	] [		[ ] D/DELETE)				
ATIONALE:	(If appl	icable)						
		IN		[ X ] [ ]				
REMARKS: LOSS OF OUTPUT PROVIDES WORST CASE CONDITION. LOSS OF SYNC NOT ANALYSED. WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITIONS. ONLY WORST CASE CONDITION WAS ANALYSED.								
	8053 COLOR LENS W.C. LONG TY RE C A  [	COLOR LENS ASSEMBLE W.C. LONG  TY REDUNDANCY C A B  [ ] [ ] [ P ]   [ N ] [ N ]  (If different from the color of the color	COLOR LENS ASSEMBLY (TVC AV.C. LONG  TY REDUNDANCY SCREENS  A B  [	COLOR LENS ASSEMBLY (TVC A)  W.C. LONG  TY REDUNDANCY SCREENS  C A B C  [				

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8054 2.2.6.2	NASA DATA BASELINE NEW								
SUBSYSTEM: MDAC ID: ITEM:		BLY (TVC A)								
LEAD ANALYST:	W.C. LONG									
ASSESSMENT:										
FLIGH	ITY REDUNDANG T NC A	CY SCREENS  B C	CIL ITEM							
NASA [ 2 /2 IOA [ 2 /1R	] [ ] [ ] [ P ] [	P ] [ P ]	[ X ] * [ X ]							
COMPARE [ /N	] [ N ] [	N ] [ N ]	[ ]							
RECOMMENDATIONS:	(If different	from NASA)								
[ 2 /1R	[P] [P] [	P] [P]	[ ] .DD/DELETE)							
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]										
REMARKS: PHYSICAL BINDING/JAMMING COULD CAUSE LOSS OF CCTV AND MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.										

ASSESSMI ASSESSMI NASA FMI	EN:	Г	II	):		C								[		]								
SUBSYSTEMDAC ID:						80	COMM AND TRACK 1054 COLOR LENS ASSEMBLY (TVC A)																	
LEAD AND	/L	YS	T:	:		W	.c. Long																	
ASSESSMI	EN:	r:																						
	CI	RI			AL.		Y		RI	EDUI	NDAN	IC	Y:	SCI	REE	NS	5				CIL ITEM			
		H							A				В				С			-	,	•		
NASA IOA		[	2	/	2 1R	]	,	[	P	]	] ]	:	P	]		[	P	]		]	X X	]	*	
COMPARE		[		/	N	]		[	N	]	. [		N	3		[	N	]		[		]	•	
RECOMME	ND.	ΑT	'IC	NC	s:		(If	d.	ifi	fere	ent	f	r	om 1	NAS	A)	)							
		[	2	/	1R	]		[	P	]	ĺ	•	P	]		[	P	] (			/DE		ETE	:)
* CIL R		EN	T.	[0	N :	RA!	rionz	AL	Е:	(I:	f ar	p	<b>1</b> i	ical				EQUATE		]	x	]		
REMARKS: PHYSICAL BINDING/JAMMING COULD CAUSE LOSS OF CCTV AND MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.																								

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8055 2.2.6.1		NASA DATA BASELINE NEW	[ ]
SUBSYSTEM: MDAC ID: ITEM:		MBLY (TVC	В)	
LEAD ANALYST:	W.C. LONG			
ASSESSMENT:				
CRITICAL FLIGH	T	NCY SCREEN		CIL ITEM
HDW/FU	NC A	В	С	
NASA [ 2 /2 IOA [ 2 /1R	] [ ] [ P ]	[ ] [ [ P ] [	P ]	[ X ] * [ X ]
COMPARE [ /N	] [N]	[ N ] [	N ]	[ ]
RECOMMENDATIONS:	(If different	: from NASA	.)	
[ 2 /1R	[ P ]	[ P ] [	P ] (A	[ ] DD/DELETE)
* CIL RETENTION	RATIONALE: (If a		ADEQUATE NADEQUATE	[x]
REMARKS: LOSS OF OUTPUT C CAPABILITY TO PE MONITORING P/L B VEHICLE AND CREW CREW WINDOW VIEW RMS JETTISON TO CONDITION. ONLY	RFORM CCTV FUNCT BAY DOOR LATCHES . UNLIKE CCTV F ING, EVA AND COA ALLOW P/L BAY DO	OF CCTV AN FION COULD RESULTING REDUNDANCY AS FOR CREW	D MISSION. PREVENT RM IN POSSIBL EXISTS VIA VISUAL IN WORST C	LOSS OF ALI S STOW AND E LOSS OF SPECTION AND
CONDITION. ONLY	WORDI CADE CONL	TITON MWD	WINTIDED.	

ASSESSMENT DATE: 3/05/88

NASA DATA:

ASSESSMENT ID: NASA FMEA #:			BASELINE NEW	[ x ]
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8055 COLOR LENS ASSE			
LEAD ANALYST:	W.C. LONG			
ASSESSMENT:				
FLIGH			3 - 1 - 1 <del>1 - 1 -</del> 1	CIL ITEM
·	] [ p ]	[ ] [ I	? ] ? ]	[ X ] * [ X ]
COMPARE [ /N	] [ N ]	[и] [и	<b>1</b> ]	[ ]
RECOMMENDATIONS:	(If different	from NASA)		
[ 2 /1R	] [P]	[1] [1]	P ] (AI	[ ] DD/DELETE)
* CIL RETENTION	RATIONALE: (If a	1	ADEQUATE ADEQUATE	
REMARKS: LOSS OF OUTPUT C CAPABILITY TO PE MONITORING P/L B VEHICLE AND CREW CREW WINDOW VIEW RMS JETTISON TO	RFORM CCTV FUNCT AY DOOR LATCHES . UNLIKE CCTV R ING, EVA AND COA	OF CCTV AND TON COULD PIRESULTING IN EDUNDANCY EXIST FOR CREW TOOK CLOSURE.	MISSION. REVENT RMS N POSSIBLI KISTS VIA VISUAL INS	LOSS OF ALL S STOW AND E LOSS OF SPECTION AND

CONDITION. ONLY WORST CASE CONDITION WAS ANALYSED.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8	055B	NASA DATA: BASELINE NEW						
SUBSYSTEM: MDAC ID: ITEM:	COMM AND 8055 COLOR LEI	TRACK	В)						
LEAD ANALYST:	W.C. LONG	ſĠ							
ASSESSMENT:									
FLIGH		REDUNDANCY SCREENS  A B	s C	CIL ITEM					
NASA [ 3 /3 IOA [ 2 /1R	] [	P ] [ P ] [	P ]	[ x ]					
COMPARE [ N /N	] [ ]	иј [иј [	<b>n</b> ]	[ N ]					
RECOMMENDATIONS:	(If di	fferent from NASA	)						
[ /	] [	] [ ] [	] (Al	[ ] DD/DELETE)					
	RATIONALE	: (If applicable)	ADEQUATE NADEQUATE	[ X ]					
REMARKS: LOSS OF OUTPUT COULD CAUSE LOSS OF CCTV AND MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION. ONLY WORST CASE CONDITION WAS ANALYSED.									

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8055C 2.2.8.2	NA B	SA DATA: ASELINE [ ] NEW [ X ]
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8055 COLOR LENS ASSEM	IBLY (TVC B)	
LEAD ANALYST:	W.C. LONG		
ASSESSMENT:			The second second
51 TAIN	ITY REDUNDAN T NC A		CIL ITEM
NASA [ 3 /3 IOA [ 2 /1R	] [ ] [ ] [ P ]	] [ P] [P	] [ ] * ] [ x ]
COMPARE [ N /N	] [N]	[ N ] [ N	] [ N ]
RECOMMENDATIONS:	(If different	from NASA)	
[ /	] [ ] [	] [	[ ] (ADD/DELETE)
* CIL RETENTION	RATIONALE: (If ag	oplicable) AI INAI	PEQUATE [ X ] PEQUATE [ ]
CAPABILITY TO PE MONITORING P/L B VEHICLE AND CREW CREW WINDOW VIEW	RFORM CCTV FUNCTI AY DOOR LATCHES I UNLIKE CCTV RE	ON COULD PRE RESULTING IN EDUNDANCY EXI FOR CREW VI	SUAL INSPECTION AND

CONDITION. ONLY WORST CASE CONDITION WAS ANALYSED.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8056 2.2.6.2		NASA DATA: BASELINE NEW						
SUBSYSTEM: MDAC ID:	COMM AND TRACK	OMM AND TRACK 056 OLOR LENS ASSEMBLY (TVC C)							
LEAD ANALYST:	W.C. LONG								
ASSESSMENT:									
CRITICAI FLIGH	LITY REDUNE	ANCY SCREENS		CIL ITEM					
	INC A	В	C	TIEM					
NASA [ 2 /2 IOA [ 2 /1F	[ ] [ P ]	[ p ] [	P ]	[ X ] * [ X ]					
COMPARE [ /N	] [N]	[ N ]	n ]	[ ]					
RECOMMENDATIONS:	(If differen	t from NASA)							
[ 2 /1F	[P]	[P] [:		[ ] DD/DELETE)					
* CIL RETENTION	RATIONALE: (If		ADEQUATE ADEQUATE						
REMARKS: PHYSICAL BINDING/JAMMING COULD CAUSE LOSS OF CCTV AND MISSION.LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.									

ASSESSMEI ASSESSMEI NASA FME	TV TV A #	D? II	ATE:	3/ CO 2.	3/05/88 NASA DATA: COMTRK-8056A BASELINE [ 2.2.8.1 NEW [							: [ x ]								
SUBSYSTEMDAC ID:	M:			80	56			TRACK S ASS				7C (	· >)							-
LEAD ANA	LYS	T	:	W.	.c. Long															
ASSESSME	NT:	;																		
	CR]		ICAL: LIGH		•		RI	EDUND	ANC	CY	SCRE	EENS	5				L EM	Ţ		
	F	IDI	V/FU	NC L			A		r	В		1.	С		_			•		
NASA IOA	[	2	/2 /1R	]		[	P	]	[	P	]	[	P	]		]	X X	]	*	
COMPARE	[		/N	]		[	N	]	[	N	]	[	N	]		[		]		
RECOMMEN	DA?	CIO	ons:		(If	đ	if	feren	t 1	fro	om NA	\SA)	)	•						
	[	2	/1R	]		[	P	]	[	P	3	[	P	]	(AD	[ D/	DI	] ELE	TE)	)
* CIL RE	TEI	<b>1T</b>	ION :	RAT	IONA	L	Ξ:	(If	app	pli	[cab]		IA IAV	DEQUAT DEQUAT	E E	[	x	]		
REMARKS: PHYSICAL LOSS OF STOW AND LOSS OF CREW WIN RMS JETT	ALI MO VEI DOI ISO	I ( ON: II: W	CAPA ITOR CLE VIEW	BII INC ANI INC	ITY P/I CRI	T( EW /A	D ] BA' Al	PERFO Y DOO UNLI ND CO	RM R ] KE AS	CC LAT CC FC	CTV I CCHES CTV I OR CI	SS (FUNC S RI REDU REW	OF CT ESU UNI V	CCTV ION CO ULTING DANCY ISUAL	AND ULD IN EXI INS	) i ) i i i [ST	MIS PRI POS IS	SSI EVE SSI VI	INT BLI A	RMS E

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8057 2.2.6.3	NASA DATA: BASELINE [ ] NEW [ X ]
SUBSYSTEM: MDAC ID:		C)
LEAD ANALYST:	W.C. LONG	
ASSESSMENT:		
	REDUNDANCY SCREENS IT INC A B	C CIL  ITEM
	[ P ] [ P ] [	p ] [ X ] *
COMPARE [ N /N	] [N] [N] [	N ] [ N ]
RECOMMENDATIONS:	(If different from NASA)	)
[ /	] [ ] [ ] [	] [ ] (ADD/DELETE)
	RATIONALE: (If applicable)	ADEQUATE [ X ] NADEQUATE [ ]
CAPABILITY TO PE MONITORING P/L E VEHICLE AND CREW CREW WINDOW VIEW RMS JETTISON TO	COULD CAUSE LOSS OF CCTV AND ERFORM CCTV FUNCTION COULD BAY DOOR LATCHES RESULTING W. UNLIKE CCTV REDUNDANCY WING, EVA AND COAS FOR CREW ALLOW P/L BAY DOOR CLOSURE NLY WORST CASE CONDITION WA	PREVENT RMS STOW AND IN POSSIBLE LOSS OF EXISTS VIA VISUAL INSPECTION AND WORST CASE

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8057A	NASA DATA BASELINE NEW	: [					
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8057 COLOR LENS ASSEMB	LY (TVC C)						
LEAD ANALYST:	W.C. LONG							
ASSESSMENT:								
FLIGH'			CIL ITEM					
HDW/FUI	NC A	В С						
NASA [ 3 /3 IOA [ 2 /1R	] [ p ] [ :	P ] [ P ]	[ x ] *					
COMPARE [ N /N	] [N] [1	и] [и]	[ N ]					
RECOMMENDATIONS:	(If different f	rom NASA)						
[ /	] [ ] [	] [ ] (A)	[ ] DD/DELETE)					
* CIL RETENTION	RATIONALE: (If app	licable) ADEQUATE INADEQUATE	[ X ]					
REMARKS: LOSS OF OUTPUT COULD CAUSE LOSS OF CCTV AND MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION. ONLY WORST CASE CONDITION WAS ANALYSED.								

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8058 2.2.6.2	NASA DATA BASELINE NEW	[ x ]										
MDAC ID:	COMM AND TRACK 8058 COLOR LENS ASSEME												
LEAD ANALYST:	W.C. LONG												
ASSESSMENT:													
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM													
		В С											
NASA [ 2 /2 IOA [ 2 /1R	[ P ] [	P ] [ P ]	[ X ] *										
COMPARE [ /N	] [N][	и] [и]	[ ]										
RECOMMENDATIONS:	(If different f	from NASA)											
[ 2 /1R	[P] [P] [	P ] [ P ] (A)	[ ] DD/DELETE)										
* CIL RETENTION	RATIONALE: (If app	olicable) ADEQUATE INADEQUATE	[ X ]										
LOSS OF ALL CAPA STOW AND MONITOR LOSS OF VEHICLE CREW WINDOW VIEW	ABILITY TO PERFORM RING P/L BAY DOOR I AND CREW. UNLIKE VING, EVA AND COAS	JSE LOSS OF CCTV AN CCTV FUNCTION COULLATCHES RESULTING INCCTV REDUNDANCY EXFOR CREW VISUAL INCCLOSURE. WORST C.	D PREVENT RMS N POSSIBLE ISTS VIA SPECTION AND										

CONDITION. ONLY WORST CASE CONDITION WAS ANALYSED.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-80 2.2.8.1	58 <b>A</b>	NASA DATA: BASELINE [ ] NEW [ X ]										
SUBSYSTEM: MDAC ID: ITEM:	8058												
LEAD ANALYST:	W.C. LONG	ł											
ASSESSMENT:		m buryan s	-										
CRITICAL: FLIGHT		EDUNDANCY SCREEN		CIL ITEM									
	NC A	В	<b>c</b>										
NASA [ 2 /2 IOA [ 2 /1R	] [ P	[ P ]	[ ] [ P ]	[ X ] * [ X ]									
COMPARE [ /N	] [ N	, i i i	[ א ]	[ ]									
RECOMMENDATIONS:	(If dif	ferent from NAS	A)										
[ 2 /1R	] [ P	P] [P]	[ P ] (A	[ DD/DELETE)									
* CIL RETENTION 1	RATIONALE:		) ADEQUATE INADEQUATE	[ X ]									
REMARKS: PHYSICAL BINDING, LOSS OF ALL CAPAL STOW AND MONITOR: LOSS OF VEHICLE A CREW WINDOW VIEW RMS JETTISON TO A CONDITION. ON	BILITY TO ING P/L BA AND CREW. ING, EVA A ALLOW P/L	PERFORM CCTV FUI Y DOOR LATCHES I UNLIKE CCTV REI ND COAS FOR CREY	NCTION COUL RESULTING I DUNDANCY EX W VISUAL IN E. WORST C	D PREVENT RMS N POSSIBLE ISTS VIA SPECTION AND ASE									

	ASSESSME ASSESSME NASA FME	ENT ENT	D# II #:	ATE:	3/05/88 COMTRK-8059 2.2.6.1											NASA DATA: BASELINE [ ] NEW [ X ]								
	SUBSYSTE MDAC ID:	EM:			COM 805 COL	M AN 9 OR I	ID Æ	r Sn	RA	SS)	EM	BL	Y	(TV	'C	D,	)							
	LEAD ANA	:	W.C	. L	N	G																		
	ASSESSME	ENT	:																					
			FI	CAL: LIGH: N/FUI	r									CRE	EN		С					L EM		
	NASA IOA												. ]		[	: .	P	]			[	X X	]	*
	COMPARE	[		/N	]	[		N	]		[	N	]		[	. 1	N	]			[		]	
	RECOMMEN	IDA!	ric	ons:	(	If o	li	ff	er	en	t	fr	ОП	n NA	SA	7)								
		Ţ	2	/1R	]	1	[	P	]		[	P	)		[		P	]	(			/DE		ETE)
	* CIL RE			ON I		ONA	LE	:	(1	[f :	аp	pl	ic	abl				EQU EQU						
LOSS	REMARKS: LOSS OF CAPABILI MONITORI VEHICLE CREW WIN RMS JETT	OU' TY ENG AN! ODO	TC P/ D C V W NC	PEI L BA CREW VIEW TO A	RFOR AY D . U ING, ALLO	M CO OOR NLII EVA W P	CT L KE A	V A'I (AN	FU CH CCI ID BAY	INC' HES IV I COI I DO	TI R RE AS	ON ES DU F R	UL NE OR	OUI TIN ANC CF OSU	D IG Y EW IRE	P: E: V	RE N XI VI	EVEN POS STS SUA WOR	T F SIE VI L I ST	MS BLE A NS CA	S I PI	STO LOS	W SS	AND OF

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-80 2.2.6.4	)59 <b>A</b>	1	NASA DATA: BASELINE [ ]								
SUBSYSTEM: MDAC ID:	COMM AND 8059 COLOR LEN	TRACK	-	) )								
LEAD ANALYST:	W.C. LONG	I.C. LONG										
ASSESSMENT:												
CRITICAL	CIL ITEM											
FLIGH HDW/FU	T NC A	A	B	C	ITEM							
NASA [ 2 /2 IOA [ 2 /1R	] [ F	] [	] [ g	] P ]	[ X ] *							
COMPARE [ /N	] [ N	4 ] [	и] [1	n j	[ ]							
RECOMMENDATIONS:	(If dif	fferent f	rom NASA)									
[ 2 /1R	] [F	P ] [	P ] [	] (AI	[ ] DD/DELETE)							
* CIL RETENTION	RATIONALE:	: (If app	•	ADEQUATE ADEQUATE	[ X ]							
REMARKS:					•							
LOSS OF OUTPUT C	OULD CAUSE	E LOSS OF	CCTV AND	MISSION.	LOSS OF ALL							
CAPABILITY TO PE	CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND											
MONITORING P/L B	MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXISTS VIA											
CREW WINDOW VIEW	CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND											
RMS JETTISON TO	RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE											

CONDITION. ONLY WORST CASE CONDITION WAS ANALYSED.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8059B	NASA DATA: BASELINE [ ] NEW [ X ]												
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8059 COLOR LENS ASSEMBLY (TVC D	<b>)</b> )												
LEAD ANALYST:	W.C. LONG	W.C. LONG												
ASSESSMENT:														
FLIGH		CIL ITEM C												
NASA [ 2 /2 IOA [ 2 /1R	] [ ] [ ] [ ] [ P ] [	P ] [ X ] *												
COMPARE [ /N	] [N] [N] [	и] [ ]												
RECOMMENDATIONS:	(If different from NASA)													
[ 2 /1R	] [P] [P] [	P ] [ ] (ADD/DELETE)												
		ADEQUATE [ X ] ADEQUATE [ ]												
LOSS OF OUTPUT CONTROL CAPABILITY TO PERMONITORING P/L BUTTON VIEW CREW WINDOW VIEW RMS JETTISON TO A STATE OF THE PROPERTY OF	OULD CAUSE LOSS OF CCTV AND RFORM CCTV FUNCTION COULD PAY DOOR LATCHES RESULTING I . UNLIKE CCTV REDUNDANCY E ING, EVA AND COAS FOR CREW ALLOW P/L BAY DOOR CLOSURE. LY WORST CASE CONDITION WAS	REVENT RMS STOW AND N POSSIBLE LOSS OF XISTS VIA VISUAL INSPECTION AND WORST CASE												

ASSESSME ASSESSME NASA FME	3/05/88 N COMTRK-8059C 2.2.8.2									NASA DATA: BASELINE [ ] NEW [ X ]											
SUBSYSTE MDAC ID: ITEM:				80	OMM AND TRACK 059 OLOR LENS ASSEMBLY (TVC D)														. a . kt		
LEAD ANA	LY	ST	:	W.	c. I	.OI	1G														
ASSESSME	NT	:																			
	CR		ICAL LIGH		•		RI	נטסו	NDAN	CY	sc	REEN					тπ	L EM			
	1						A			В			С			, -, <u>-</u>	ī				
NASA IOA	[	3 2	/3 /1F	]		]	P	]	[	P	]	[	P	]			[	X	]	*	
COMPARE	[	N	/N	]		[	N	]	[	N	]	[	N	]			[	N	]		
RECOMMEN	IDA	TI	ons:	:	(If	d:	if	fer	ent	fr	om	NASA	.)								
	[		/	]		[		]			]	[		]		(AI		/DI		ETE)	
* CIL RE	ETE	NT	ION	RAT	CION	AL	E:	(I	f ap	pl	ica		A	DEQ DEQ	UAT:	E E	[	x	]		
REMARKS: LOSS OF CAPABILI MONITORI VEHICLE CREW WIR RMS JETT CONDITION	OU ITY ING AN NDO	T D W	O PI /L I CREV	ERFO BAY V. VINC ALJ	DOO! UNL:	CC R IK VA P/	TV LA' E ( A)	FU ICH CCT ND BAY	NCTI ES F V RE COAS	ON RES DU F R	ULI IND! OR CLO	OULD TING ANCY CREV OSURI	PR IN EX V V	EVE PO IST ISU WO	NT SSI S V AL RST	RMS BLI IA INS CI	S S E I SPI ASI	LOS ECT	SS	OF	

ASSESSMENT DATE: 3/05/88  ASSESSMENT ID: COMTRK-8060  NASA FMEA #: 2.2.6.2  NEW [ X ]													
SUBSYSTEM: COMM AND TRACK MDAC ID: 8060 ITEM: COLOR LENS ASSEMBLY (TVC D)													
LEAD ANALYST: W.C. LONG													
ASSESSMENT:													
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM													
HDW/FUNC A B C													
NASA [2/2] [] [] [X]* IOA [2/1R] [P] [P] [X]													
COMPARE [ /N ] [N] [N] []													
RECOMMENDATIONS: (If different from NASA)													
[2/1R] [P] [P] [P] [ADD/DELETE)													
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ] INADEQUATE [ ]													
REMARKS: PHYSICAL BINDING/JAMMING COULD CAUSE LOSS OF CCTV AND MISSION.													
LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT I	RMS												
STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXISTS VIA													
CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION AND	ND												
RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION. ONLY WORST CASE CONDITION WAS ANALYSED.													

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8060A	NASA DATA: BASELINE [ ] NEW [ X ]							
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8060 COLOR LENS ASSEMBLY (TVC I								
LEAD ANALYST:									
ASSESSMENT:									
CRITICAL FLIGH	ITY REDUNDANCY SCREENS	CIL ITEM							
	NC A B	С							
NASA [ 2 /2 IOA [ 2 /1R	[ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]	p ] [ X ] *							
COMPARE [ /N	] [N] [N] [	N ] [ ]							
RECOMMENDATIONS:	(If different from NASA)	l							
[ 2 /1R	[P] [P] [	P ] [ ] (ADD/DELETE)							
* CIL RETENTION	RATIONALE: (If applicable)	ADEQUATE [ X ] NADEQUATE [ ]							
LOSS OF ALL CAPA STOW AND MONITOR LOSS OF VEHICLE CREW WINDOW VIEW RMS JETTISON TO	JAMMING COULD CAUSE LOSS OF BILITY TO PERFORM CCTV FUNCTIONS OF LATCHES RICHARD CREW. UNLIKE CCTV REDIVING, EVA AND COAS FOR CREW ALLOW P/L BAY DOOR CLOSURE OF LY WORST CASE CONDITION WAS	OF CCTV AND MISSION. CTION COULD PREVENT RMS ESULTING IN POSSIBLE JNDANCY EXISTS VIA VISUAL INSPECTION AND WORST CASE							

ASSESSMENT DATE:	3/05/88	NASA DATA:									
ASSESSMENT ID:		E	BASELINE [ ] NEW [ X ]								
SUBSYSTEM: MDAC ID: ITEM:	ST TVC)										
LEAD ANALYST:	W.C. LONG										
ASSESSMENT:											
CRITICAL FLIGH		ANCY SCREENS	CIL ITEM								
HDW/FU		ВС	lien								
NASA [ 2 /2 IOA [ 3 /2R	] [ ] ] ]	[ p ] [ p	] [ X ] *								
COMPARE [ N /N	] [ N ]	[ N ] [ N	] [ N ]								
RECOMMENDATIONS:	(If different	: from NASA)									
	1 [ ,1	[ ] [	[ ] (ADD/DELETE)								
* CIL RETENTION	RATIONALE: (If a	AD	PEQUATE [ X ] PEQUATE [ ]								
REMARKS:			•								
LOSS OF CLA COULD OUTPUT RESULTS IN			T. LOSS OF TVC								

USED TO MONITOR CRITICAL FUNCTIONS AND ELBOW TVC PROVIDES PARTIAL REDUNDANCY FOR MISSION SUPPORT. UNLIKE REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION. ALL CAPABILITY TO PERFORM WRIST TVC FUNCTION COULD RESULT IN LOSS

OF MISSION.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8061A 5.2.6.4	BASEI	NEW [ X ]
SUBSYSTEM: MDAC ID: ITEM:	8061	EMBLY (RMS WRIST T	
LEAD ANALYST:	W.C. LONG		
ASSESSMENT:			
CRITICAL FLIGH HDW/FU			CIL ITEM
NASA [ 2 /2 IOA [ 3 /2R	] [ j ]	[ ] [ ] [ P ]	[ X ] *
COMPARE [ N /N	] [ N ]	[иј [иј	[и]
RECOMMENDATIONS:	(If differen	t from NASA)	ري الموقع عقال الم ا
[ /	j [ ]		[ ] (ADD/DELETE)
* CIL RETENTION	RATIONALE: (If	ADEQUA	ATE [ X ] ATE [ ]
OUTPUT RESULTS I USED TO MONITOR REDUNDANCY FOR M	N REDUCED MISSI CRITICAL FUNCTI ISSION SUPPORT. TING EVA AND CO	S OF TVC OUTPUT. ON EFFECTIVENESS. ONS AND ELBOW TVC UNLIKE REDUNDANC OAS FOR CREW VISUAL TVC FUNCTION COU	WRIST TVC NOT PROVIDES PARTIAL CY EXISTS VIA L INSPECTION.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8061B	NASA DATA BASELINE NEW									
MDAC ID:	COMM AND TRACK 8061 COLOR LENS ASSEMBLY (R										
LEAD ANALYST:											
ASSESSMENT:											
CRITICALI	CIL ITEM										
	FLIGHT HDW/FUNC A B C										
NASA [ 3 /3 IOA [ 3 /2R	] [ ] [ ] ] [ P ] [ P ]	[ ] [ P ]	[ ] *								
COMPARE [ /N	] [N] [N]	[ N ]	[ ]								
RECOMMENDATIONS:	(If different from N	ASA)									
[ /	] [ ] [ ]	[ ] (A)	[ ] DD/DELETE)								
	RATIONALE: (If applicab	le) ADEQUATE INADEQUATE									
FUNCTION ANALYSED CREW WINDOW VIEWI	OVERS ALL TVC FUNCTIONS ON THE PROPERTY OF T	REW VISUAL IN	SPECTION.								

ASS:	ESSME	ŊΤ	'_I	D:		3/05/88 COMTRK-8061C 5.2.7.2											NASA DATA: BASELINE [ ] NEW [ X ]							
	SYSTE C ID: M:				;	COMM AND TRACK 8061 COLOR LENS ASSEMBLY (RMS WRIST TVC)											C)							
LEA	D ANA	LY	ST	:	1	W.C. LONG											Paramatan di Param							
ASS	ESSME	NT	:																					
		HT				RI A	REDUNDANCY SCRE						C C					CIL ITEM						
													_			_		,			_	-		
	NASA IOA	[	3	/3 /2	R	]		[	P	]		[	P	]		[	P	]			[	]	*	
COM	PARE	[		/N		]		[	N	3		[	N	]		[	N	]			[	]		
REC	OMMEN	IDA	TI	ons	:	(	Ιf	đ	if	fer	ent	: 1	fro	om	NAS	A)	)							
		(		/		]		[		]		[		]		[		].		(AD		] DELI		1
* C	IL RE	ETE	ŊТ	ION	R	ATI	ONZ	ΛL	E:	(I	f a	p	ol:	Lca	ble				UAT:			Κį		
LOS FUN CRE ALL	ARKS: S OF CTION W WIN CAPA MISSI	OÜ I A IDC ABI	NA W LI	LYS VIE	ED WI	NG,	E7	/A	Al	ND	COA	s	F	DR	CRE	W	INC [V	LY Y	AL :	ST INS	CAS	SE CTIO	ON.	Loss

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8062	NASA DATA BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	8062	EMBLY (RMS WRIST TVC)	
LEAD ANALYST:	W.C. LONG		
ASSESSMENT:			
	ITY REDUNDA	ANCY SCREENS	CIL ITEM
FLIGH HDW/FU		в с	11211
NASA [ 2 /2 IOA [ 3 /2R	] [ ] ]	[ ] [ ] [ P ]	[ X ] *
COMPARE [ N /N	] [ N ]	[ N ] [ N ]	[ N ]
RECOMMENDATIONS:	(If different	from NASA)	
[ /	1. [ 1	[ ] [ ] (A	[ ] DD/DELETE)
* CIL RETENTION	RATIONALE: (If a	applicable) ADEQUATE INADEQUATE	
REMARKS: EXISTS VIA CREW INSPECTION. ALL RESULT IN LOSS O	CAPABILITY TO I	EVA AND COAS FOR CRE PERFORM WRIST TVC FUN	W VISUAL

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8062A 5.2.7.1	BAS	SELINE [ ] NEW [ X ]
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRAC 8062 COLOR LENS AS	K SEMBLY (RMS WRIST	TVC)
LEAD ANALYST:	W.C. LONG		
ASSESSMENT:			a series and the series of the
CRITICALI FLIGHT		DANCY SCREENS	CIL ITEM
HDW/FU		ВС	
NASA [ 2 /2 IOA [ 3 /2R	] [ ] ] [ P ]	[ ] [ ] [ P ] [ P ]	[ X ] *
COMPARE [ N /N	] [ N ]	[и] [иј	[ N ]
RECOMMENDATIONS:	(If differe	nt from NASA)	
[ \	] [ ]	[ ] [ ]	[ ] (ADD/DELETE)
* CIL RETENTION I	RATIONALE: (If		QUATE [ X ]
			QUATE [ X ] QUATE [ P ]
REMARKS: EXISTS VIA CREW VINSPECTION. ALL RESULT IN LOSS OF	CAPABILITY TO	, EVA AND COAS FO PERFORM WRIST TO	OR CREW VISUAL OR FUNCTION COULD

ASSESSMENT ASSESSMENT NASA FMEA	DATE: ID: #:	3/05/88 COMTRK-8 4.2.6.1	3063		NASA DATA BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:		8063		MBLY (RMS	S ELBOW TVC)	
LEAD ANALYS	ST:	W.C. LON	1G			
ASSESSMENT:	:					
CRI	ITICALI FLIGHT	TY	REDUNDA	NCY SCREI	ens	CIL ITEM
H		1C	A	В	С	ITEM
NASA [ ] AOI	2 /2 3 /2R	] [	P ]	[ ] [ P ]	[ ] [ P ]	[ x ] *
COMPARE [	N /N	] [	N ]	[и]	[ N ]	[ N ]
RECOMMENDAT	rions:	(If di	fferent	from NAS	SA)	
	/	] [	]	[ ]	[ ] (A	[ DD/DELETE)
* CIL RETEN	TION R	RATIONALE	E: (If a	pplicable	ADEQUATE INADEQUATE	
OUTPUT COUI NOT USED TO PARTIAL RED EXISTS VIA	LD RESU MONIT DUNDANC CREW W . ALL	ULT IN RECORDED IN THE PROPERTY OF THE PROPERT	DUCED M CAL FUN SSION S EWING, TY TO P	ISSION EF CTIONS AN UPPORT. EVA AND C	TVC OUTPUT. FFECTIVENESS ID WRIST TVC UNLIKE REDU COAS FOR CRE LBOW TVC FUN	PROVIDES NDANCY W VISUAL

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8063	A	NASA DATA: BASELINE NEW						
SUBSYSTEM: MDAC ID: ITEM:	8063	COMM AND TRACK 3063 COLOR LENS ASSEMBLY (RMS ELBOW TVC)							
LEAD ANALYST:									
ASSESSMENT:									
CRITICAI FLIGH		UNDANCY SCREENS	3	CIL ITEM					
HDW/FU	INC A	В	<b>c</b>						
NASA [ 2 /2 IOA [ 3 /2F	] [ ] ? ] [ P ]	[ ] [ [ P ]	P ]	[ ] * [ X ]					
COMPARE [ N /N	] [N]	[ N ]	и ]	[ N ]					
RECOMMENDATIONS	(If diffe	erent from NASA)	)	•					
1 , /	] [ ]	נ ז ַנ		[ ] DD/DELETE)					
* CIL RETENTION	RATIONALE: (		ADEQUATE NADEQUATE	[ X ]					
REMARKS: LOSS OF CLA OPERATION RESULTS IN LOSS OF TVC OUTPUT. LOSS OF TVC OUTPUT COULD RESULT IN REDUCED MISSION EFFECTIVENESS. ELBOW TVC NOT USED TO MONITOR CRITICAL FUNCTIONS AND WRIST TVC PROVIDES PARTIAL REDUNDANCY FOR MISSION SUPPORT. UNLIKE REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION. ALL CAPABILITY TO PERFORM ELBOW TVC FUNCTION COULD									

RESULT IN LOSS OF MISSION.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8		NASA DATA BASELINE NEW	[ ]	
	COMM AND 8063 COLOR LE		EMBLY (RMS	ELBOW TVC)	
LEAD ANALYST:	W.C. LON	G			
ASSESSMENT:					
CRITICAL: FLIGHT		REDUNDA	NCY SCREE		CIL ITEM
HDW/FU	NC	A	<b>B</b> .	С	
NASA [ 3 /3 IOA [ 3 /2R	] [	] P ]	[ ] [ P ]	[ ] [ P ]	[ ] *
COMPARE [ /N	] [	и ]	[ N ]	[ N ]	[ ]
RECOMMENDATIONS:	(If di	fferent	from NAS	SA)	
[ /	] [	]	[ ]	[ ]	[ ] .DD/DELETE)
* CIL RETENTION	RATIONALE	: (If a	applicable	adequate INADEQUATE	[ X ]
REMARKS: LOSS OF OUTPUT PRANALYSED. EXISTS VIA CREW VINSPECTION. ALL RESULT IN LOSS OF	WINDOW VI CAPABILI	EWING,	EVA AND	COAS FOR CRE	W VISUAL

ASSESSMI NASA FMI	ENT	I	D:	C	/05/ OMTF .2.6	K-	80	63C								DAT ELIN NE	E (	X	]	Turning to the second
SUBSYSTIMDAC ID				8	063								RMS I			TVC	)			e en
LEAD AN	ALY	ST	:	W	.c.	LO	NG													
ASSESSMI	ENT	:																		
	CR		ICA:		Y		R	EDU	NDAN	CA	?	SCI	REENS	3				IL TE		
	1		W/F				A			E	3			С			•		•	
NASA IOA	[	3 3	/3 /2	R ]		[	P	]	[	F	•	]	[ [	P	]		[		]	*
COMPARE	[		/N	]		[	N	]	(	N	ī	]	[	N	]		[	•	]	
RECOMME	NDA'	ΓI	ons	:	(If	đ:	if	fer	ent	fr	c	m l	VASA)	)						
	[		/	]		[		]	[			]	[		]	(.	] ADI	D/DI	] ELE	ETE)
* CIL RI	ETE	NT:	ION	RA	TION	IALI	Ε:	(I	f ap	pl	. <b>i</b>	.cak	•	ΑI	DEQ	UATE UATE		X	]	
REMARKS LOSS OF ANALYSEI EXISTS ' INSPECT' RESULT	OU' D. VIA ION	C	REW AL	WI L C	NDOW APAE	V BIL	IEV	JIN	G, E	VA		ANI	OITIC	on. As	FO	LOSS R CR	OF EW	VIS	SUA	\L

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	TA: NE [ ] EW [ X ]								
SUBSYSTEM: MDAC ID:	COMM AND TRACK 8064 COLOR LENS ASS	rc)							
LEAD ANALYST:									
ASSESSMENT:									
CRITICAL FLIGH	CIL ITEM								
HDW/FU	NC A	ВС							
NASA [ 2 /2 IOA [ 3 /2R	] [ ] ] [ P ]	[ ] [ ] [ P ]	[ ] *						
COMPARE [ N /N	] [ N ]	[иј [иј	[ ]						
RECOMMENDATIONS:	(If differen	t from NASA)							
[ /	] [ ]	[ ] [ ]	[ ] (ADD/DELETE)						
* CIL RETENTION	RATIONALE: (If	applicable) ADEQUAT INADEQUAT	'E [ ] 'E [ ]						
REMARKS: PHYSICAL BINDING/JAMMING RESULTS IN LOSS OF TVC OUTPUT. LOSS OF TVC OUPUT COULD RESULT IN REDUCED MISSION EFFECTIVENESS. ELBOW TVC NOT USED TO MONITOR CRITICAL FUNCTIONS AND WRIST TVC PROVIDES PARTIAL REDUNDANCY FOR MISSION SUPPORT. UNLIKE REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION. ALL CAPABILITY TO PERFORM ELBOW TVC FUNCTION COULD RESULT IN LOSS OF MISSION.									

	ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	ASA DATA: BASELINE [ NEW [ ]	]						
	SUBSYSTEM: MDAC ID: ITEM:	8064	COMM AND TRACK 064 COLOR LENS ASSEMBLY (RMS ELBOW TVC)						
LEAD ANALYST: W.C. LONG									
	ASSESSMENT:								
		ITY R	REDUNDANCY	SCREENS	CII				
	FLIGH HDW/FUI	NC A	. в	С		· ·			
	NASA [ 2 /2 IOA [ 3 /2R	] [ P	] [ p	] [ P	][	] *			
	COMPARE [ N /N	] [ N	и] [1	] [ N	] [	]			
	RECOMMENDATIONS:	(If dif	ferent from	om NASA)					
	. [ /	] [	] [	1 (	] [ (ADD/I	] DELETE)			
	* CIL RETENTION 1	RATIONALE:	(If appl	· · · · · · · · · · · · · · · · · · ·	DEQUATE [	]			
	REMARKS: PHYSICAL BINDING, TVC OUPUT COULD TVC NOT USED TO DESCRIPTION OF THE PARTIAL REDUNDANCE	RESULT IN MONITOR CR CY FOR MIS WINDOW VIE	REDUCED MERITICAL FURSION SUPPORTION SUPPORTION SUPPORTION FOR SUPPORTION OF THE PROPERTY OF T	ISSION EFF NCTIONS AN ORT. UNLI AND COAS	FECTIVENESS OF THE SECTION OF THE SE	. ELBOW C PROVIDES NCY ISUAL			
	INSPECTION. ALL RESULT IN LOSS OF			OKT ELDOW	TVC FUNCTIO	NA COOPD			

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:		65			A DATA: SELINE NEW		]
SUBSYSTEM: MDAC ID: ITEM:	COMM AND 8065 FLT DECK		DER MON	ITOR			
LEAD ANALYST:	W.C. LONG						
ASSESSMENT:							
CRITICAL FLIGH		EDUNDAN	CY SCRE	ENS		CIL	1
HDW/FU			В	С			_
NASA [ 3 /3 IOA [ 3 /3	] [	] [	]				
COMPARE [ /	] [	] [	]	[ ]	-	[	1
RECOMMENDATIONS:	(If dif	ferent :	from NA	SA)			
[ /	] [	] [[	]	[ ]	(AI	[ ID\DC	] ELETE)
* CIL RETENTION	RATIONALE:	(If ap)	plicabl	ADE	QUATE		]
REMARKS: LOSS OF OUTPUT P IN AGREEMENT.	RESENTS WO	RST CAS	E CONDI	TION.	CRITIC	CALI'	TIES ARE

ASSESSME ASSESSME NASA FME	ENT I		3/05/8 COMTRI 3.1.8		65A				ASA DATA: BASELINE NEW	-		
SUBSYSTE MDAC ID:			8065	OMM AND TRACK 065 LT DECK VIEWFINDER MONITOR								
LEAD ANA	ALYST	:	W.C. :	C. LONG								
ASSESSME	ENT:											
CRITICALITY REDUNDANCY SCREENS CIL ITEM												
		W/FU		A		В		С	T ( ) 1 ( )		1	
NASA IOA	[ 3	/3 /3	]	[	]	]	]	]	]	[	] * ]	
COMPARE	[	/	]	[	]	[	]	[	]	[	]	
RECOMMEN	ITADI	ons:	(If	dif	ferent	t fr	om NA	SA)				
	[	/	1	[	]	[	]	[	] (AI	[ DD/DI	] ELET	E)
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]												
	REMARKS: LOSS OF OUTPUT PRESENTS WORST CASE CONDITION. CRITICALITIES ARE IN AGREEMENT.											

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:		В	nasa d Basei	DATA: LINE [ ] NEW [ X ]						
SUBSYSTEM: MDAC ID: ITEM:	8065	OMM AND TRACK 065 LT DECK VIEWFINDER MONITOR								
LEAD ANALYST: W.C. LONG										
ASSESSMENT:										
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM										
FLIGH HDW/FU	<del>-</del>	В	С	IIEM						
NASA [ 3 /3 IOA [ 3 /3	] [ ]	[ ]	[ ]	[ ] *						
COMPARE [ /	] [ ]		[ ]	[ ]						
RECOMMENDATIONS:	(If diffe	rent from	NASA)							
[ /	] [ ]	[ ]	[ ]	[ ] (ADD/DELETE)						
* CIL RETENTION	RATIONALE: (	If applica	able) ADEQUA INADEQUA	ATE [ X ] ATE [ ]						
REMARKS: LOSS OF OUTPUT P IN AGREEMENT.	RESENTS WORS	T CASE CON	NDITION. CF	RITICALITIES ARE						

ASSESSME ASSESSME NASA FME	NT I	D:	COMT	RK-8(	065C		NASA DATA: BASELINE [ ] NEW [ X ]						
SUBSYSTE MDAC ID:			COMM 8065 FLT				er mo	NITO					T
LEAD ANA	LYST	<b>':</b>	W.C.	LONG	3								
ASSESSME	NT:												<u>+</u>
			ITY	I	REDUN	DANC	SCR	EENS			CII		
		LIGH W/FU	NC	. 1	<b>A</b>	I	3	(	3			3 <b>1</b> -1	
NASA IOA	[ 3 [ 3	/3 /3	]	[	]	[	] ]	[	]		[	]	*
COMPARE	[	/	]	[	]	[	]	[	]		[	]	
RECOMMEN	IDATI	ons:	(I	f di	ffere	nt fi	om N	ASA)					
	[	/	1	[	]	[	]	[	1	(A		] DELE	TE)
* CIL RE	TENT	ON	RATIO	NALE	: (If	app]	licab	1	ADEQU.	ATE	[ ]	( ]	
REMARKS: LOSS OF IN AGREE	OUTP		RESEN'	rs w	DRST	CASE	COND	ITIO	1. C	RITI	CALI	TTE	S ARE

ASSESSME ASSESSME NASA FME	NT	II			RK-80	65D				IASA I BASEI		[	, ] ( )	
SUBSYSTE MDAC ID:	M:			8065	I AND DECK			ER MC	NITO	·				
LEAD ANA	LYS	ST	:	W.C.	LONG	;								
ASSESSMENT:														
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM														
FLIGHT HDW/FUNC A B C											411	714		
NASA IOA	[	3	/3 /3	]	[	]	[ [	]	[	]		[	] ;	*
COMPARE	[		/	1	ľ	]	[	]	[	. 1		[	]	
RECOMMEN	DAI	ľIC	ons:	(1	f dif	fere	ent fr	com N	IASA)					
	[		/	]	[	]	. [	]	Ţ	]	(A)	[ DD/I	] DELE	TE)
	* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]													
REMARKS: LOSS OF OUTPUT PRESENTS WORST CASE CONDITION. CRITICALITIES ARE IN AGREEMENT.														

ASSESSMENT DATE ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8 3.3.9	065E				ASA I BASEI	JINE	[ x	]				
SUBSYSTEM: MDAC ID: ITEM:	COMM AND 8065 FLT DECK			R MO	NITOR								
LEAD ANALYST:	W.C. LON	īG											
ASSESSMENT:													
CRITICALITY REDUNDANCY SCREENS CIL ITEM													
HDW/F	C	!		++	•								
NASA [ 3 /3 IOA [ 3 /3	] [	]	] [	]	[	]		[	]	*			
COMPARE [ /	] [	]	C	. ]	[	1		[	J				
RECOMMENDATIONS	: (If di	ffere	nt fi	om N	ASA)					•			
[ /	] [	]	[	]	[	]	(AI	[  D/D	] ELE	ETE)			
* CIL RETENTION	RATIONALE	E: (If	app]	licab	A	DEQUA		[ X	]				
REMARKS: LOSS OF OUTPUT IN AGREEMENT.	INADEQUATE [ ] EMARKS: OSS OF OUTPUT PRESENTS WORST CASE CONDITION. CRITICALITIES ARE												

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	NASA DATA BASELINE NEW											
	COMM AND T 8065 FLT DECK V		R MONIT	or								
LEAD ANALYST:	W.C. LONG											
ASSESSMENT:												
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM												
HDW/FU	111371											
NASA [ 3 /3 IOA [ 3 /3	] [	] [	] [	]	[ ] *							
COMPARE [ /	] [	] [	] [	]	[ ]							
RECOMMENDATIONS:	(If dif	ferent fr	om NASA	)								
,.,: <b>[</b> /	J [	] [	] [	] (A	[ ] DD/DELET	E)						
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ] INADEQUATE [ ]												
	REMARKS: LOSS OF OUTPUT PRESENTS WORST CASE CONDITION. CRITICALITIES ARE											

ASSESSMENT DA ASSESSMENT II NASA FMEA #:		K-806	5 <b>G</b>		NA E	SA DATA BASELINE NEW	: [ X	
SUBSYSTEM: MDAC ID: ITEM:		TER.						
LEAD ANALYST:	W.C.	LONG						
ASSESSMENT:							4	
	CALITY	RE	DUNDANG	Y SCRE	ENS		CIL	
	/FUNC	A		В	С			.•
NASA [ 3 IOA [ 3	/3 ] /3 ]	[	] [	]	[	]	]	] *
COMPARE [	/ ]	[	] [	]	[	]	[	]
RECOMMENDATIO	ons: (I	f diff	erent i	from NA	SA)			
[	/ 1	[	] [	]	[	] (A)	[ DD/DI	] ELETE)
* CIL RETENT	ON RATION	NALE:	(If app	olicabl	ΑI	EQUATE EQUATE		]
REMARKS: LOSS OF OUTPU IN AGREEMENT		rs wor	ST CASI	E CONDI	TION.	CRITI	CALI'	ries are

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:		65H		NASA DATA BASELINE NEW								
SUBSYSTEM: MDAC ID: ITEM:	COMM AND 3 8065 FLT DECK		R MONII	or								
LEAD ANALYST:	W.C. LONG											
ASSESSMENT:												
CRITICALITY REDUNDANCY SCREENS CIL ITEM												
NASA [ 3 /3 IOA [ 3 /3	] [	] [	] [	]	[ ] *							
COMPARE [ /	] [	] [	] [	1	[ ]							
RECOMMENDATIONS:	(If dif	ferent fr	om NASA	7)								
[ /	] [	] [	] [		[ ] DD/DELETE)							
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]												
REMARKS: LOSS OF OUTPUT PRESENTS WORST CASE CONDITION. CRITICALITIES ARE IN AGREEMENT.												

ASSESSME ASSESSME NASA FME	NT I	D:	COMT	RK-80	)65I			. 1	IASA BASE	DATA LINE NEW	[	] K ]	
SUBSYSTE MDAC ID: ITEM:			COMM 8065 FLT				-						- 1 <del>-,-</del> 8
LEAD ANA	LYSI	?:	W.C.	LONG	3								
ASSESSME	NT:												-
		ICAL	ITY	I	REDUN	DANC	SCR	EENS			CII		
			NC	1	Ą	I	3	(	3		111	J11	
NASA IOA	[ 3 [ 3	/3	]	֝֟֝֝֝֟֝֝֝֟֝֝֟ ֓֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞	]	[	]	[	] _		[	] *	•
COMPARE	[	1	]	[	]	ſ	]	[	]		[	]	
RECOMMEN	DATI	ons:	(I	f di	fere	nt fi	com N	ASA)					
	Ţ	/	1	[	]	[	]	[	]	(Al	[ I\@C	] DELET	E)
* CIL RE		NOI	RATIO	NALE	(If	app	licab	2	ADEQU ADEQU	ATE	[ ]		
REMARKS: LOSS OF IN AGREE	OUTE		RESEN	TS W	ORST	CASE	COND	OITIO	1. C	RITI	CAL	TIES	ARE

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:		A: E [ ] W [ X ]		
SUBSYSTEM: MDAC ID: ITEM:	NITOR			
LEAD ANALYST:	W.C. LONG			
ASSESSMENT:				
CRITICAL FLIGH		DANCY SCR	EENS	CIL ITEM
HDW/FU		В	С	IIDM
NASA [ 3 /3 IOA [ 3 /3	] [ ]	[ ]	[ ]	[ ] *
COMPARE [ /	] [ ]	[ ]	[ ]	[ ]
RECOMMENDATIONS:	(If differe	nt from N	ASA)	
[ /	] [ ]	[ ]	[ ]	[ ] ADD/DELETE)
* CIL RETENTION	RATIONALE: (If	applicab	le) ADEQUATE INADEQUATE	
REMARKS: LOSS OF OUTPUT P IN AGREEMENT.	RESENTS WORST	CASE COND	ITION. CRIT	ICALITIES ARE

ASSESSME ASSESSME NASA FME	NT I	D:	COMTR	K-80	65K			N	IASA 1 BASE:		[	]	
SUBSYSTE MDAC ID: ITEM:			COMM 8065 FLT D				ER MO	NITOF	<b>.</b>		77		
LEAD ANA	LYST	:	w.c.	LONG	;								
ASSESSME	NT:												
		ICAL LIGH	ITY	·	REDUN	DANCY	SCR	EENS			CII		
	c			111	311								
NASA IOA	[ 3 [ 3	/3 /3	]	[	]	[	]	[	]		[	] '	k
COMPARE	ſ	/	]	[	]	[	]	[	]		[	]	
RECOMMEN	DATI	ons:	(If	dif	fere	nt fr	om N	ASA)				•	
	[	/	]	[	]	[	]	[	]	(Al		] ELET	re)
* CIL RE	TENT	ION	RATION	ALE:	(If	appl	icab.	A	DEQUA			x ] ]	
REMARKS: LOSS OF IN AGREE			RESENT	's wo	RST	CASE	COND	OITION	r. c	RITI	CALI	TIES	S ARE

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8065	L	NASA DATA BASELINE NEW	• -
	COMM AND TR 8065 FLT DECK VI	ACK EWFINDER MON	IITOR	
LEAD ANALYST:	W.C. LONG			
ASSESSMENT:				
CRITICAL		UNDANCY SCRE	CENS	CIL ITEM
FLIGH HDW/FU		В	С	ITEM
NASA [ 3 /3 IOA [ 3 /3		[ ]	[ ]	[ ] *
COMPARE [ /	] [ ]	[ ]	[ ]	[ ]
RECOMMENDATIONS:	(If diffe	rent from NA	ASA)	
[ /	] [ ]	[ ]	[ ]	[ ] ADD/DELETE)
* CIL RETENTION PREMARKS:	RATIONALE: (	If applicabl	.e) ADEQUATE INADEQUATE	
LOSS OF OUTPUT PI	RESENTS WORS	T CASE CONDI	TION. CRITI	CALITIES ARE

ASSESSME ASSESSME NASA FME	NT II		COMTE	3/05/88 COMTRK-8065M 3.5.8					BASE		[	, ,		
SUBSYSTE MDAC ID: ITEM:			COMM 8065 FLT				R MO	NITOF						
LEAD ANA	LYST	:	W.C.	LONG	;									
ASSESSME	NT:													
	CRIT	ICAL LIGH		F	REDUN	DANCY	SCR	EENS			CII			
		W/FU		P		E	3	C	3			J17		
NASA IOA	[ 3 [ 3	/3 /3	]	[	]	]	]	[	]		]	]	*	
COMPARE	[	/	]	[	]	[	1	[	]		[	]		
RECOMMEN	DATI	ONS:	(If	dif	fere	nt fr	om N	ASA)			÷			
	[	/	1	[	]	[	1	[	]	(A	[ DD/1	] DEL	ETE)	
* CIL RE	TENT	ION :	RATION	VALE:	(If	appl	icab	7	ADEQU ADEQU		[ ;	х ј		
REMARKS: LOSS OF IN AGREE	OUTP		RESENT	rs Wo	RST	CASE	COND				CAL:	r ITI	ES A	RE

ASSESSME ASSESSME NASA FME	NT I					NASA DATA: BASELINE [ ] NEW [ X ]						
SUBSYSTE MDAC ID: ITEM:	M:		COMM 8 8065 FLT D			R MON	IITOI	2				
LEAD ANA	LYST	:	W.C. :	LONG								
ASSESSME	NT:											
		ICAL LIGH	ITY	R	EDUNI	DANCY	SCRE	EENS			IL TEM	
		W/FU		A	В	в с				LLI		
NASA IOA	[ 3 [ 3	/3 /3	]	[	]	[	]	[	]	]	]	*
COMPARE	[	/	]	[	]	[	]	[	]	[	]	
RECOMMEN	DATI	ons:	(If	dif	ferer	nt fr	om NA	SA)				
	[	/	]	[	]	[	]	[	]	(ADD,	] /DELE	ETE)
* CIL RE	TENT	ION 1	RATION	ALE:	(If	appl	icabl	Į	ADEQUAT	•	хj	
REMARKS: LOSS OF IN AGREE			RESENTS	s wo	RST (	CASE (	CONDI		ADEQUAT	_	LITIE	ES ARE

ASSESSMI ASSESSMI NASA FMI	ENT I	D:	3/05/3 COMTRI 3.5.1	K-806	550				ASA DATA: BASELINE NEW		]		
SUBSYSTEMDAC ID:			COMM 2 8065 FLT D			INDE	R MON	ITOR					
LEAD ANA	LYST	r:	W.C.	LONG									
ASSESSMI	ENT:												
CRITICALITY REDUNDANCY SCREENS CIL ITEM													
	_	DW/FU	C		1111	•							
NASA IOA	[ :	3 /3 3 /3	]	[	]	[	]	[	]	[	] <b>*</b>		
COMPARE	τ	/	]	[	]	[	]	[	]	[	]		
RECOMME	NDAT:	ions:	(If	dif	feren	t fr	om NA	SA)					
	[	/	]	[	]	[	1	[	] (Al	[ DD/DI	] ELETE)	)	
* CIL R	eten:	rion :	RATION	ALE:	(If a	appl	icable	Al	DEQUATE DEQUATE		]		
	INADEQUATE [ ]												

ASSESSME ASSESSME NASA FME	)66			N	IASA I BASEI	LINE							
SUBSYSTE MDAC ID:			COMM 8066 MID I			er mo	NITOF	Ł					
LEAD ANA	LYST	:	W.C.	LONG	}								
ASSESSME	NT:												
	CRIT			F	REDUN	DANC	SCR	EENS			CIL		
FLIGHT ITEM HDW/FUNC A B C													
NASA IOA	[ 3 [ 3	/3 /3	]	[ [	]	[	]	[	]		[	] * ]	
COMPARE	[	/	]	[	]	[	]	[	]		[	J	
RECOMMEN	DATI	ons:	(11	đi:	fere	nt fi	com N	ASA)					
	[ .	/	]	[	]	[	]	Ĺ.	]	(A		] ELETE)	
* CIL RE	TENT	ION	RATION	VALE:	: (If	app]	Licab	7	DEQUA		[ X	[ ] ]	
REMARKS: LOSS OF IN AGREE			RESENT	rs wo	DRST	CASE	COND	OITIO	ı. CI	RITI	CALI	TIES AR	E

ASSESSME ASSESSME NASA FME	NT I	D:	COMT	RK-80	)66A			ì	IASA I BASE:		[	]	
SUBSYSTEMDAC ID:	M:		8066			K FINDI	er mo	NITO	₹				
LEAD ANA	LYST	:	W.C.	LONG	3								
ASSESSME	NT:											-	
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM													
FLIGHT HDW/FUNC A B C												J1·1	
NASA IOA	[ 3 [ 3	/3 /3	]	[		[	]	*					
COMPARE	[	/	]	[	]	[	]	[	]		[	]	
RECOMMEN	DATI	ons:	(I	f di	fere	nt fi	com N	ASA)					
-	[	/	1	[	]	ί,	]	}	]	(A	[ DD/I	] DELE	TE)
* CIL RE	* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]												

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:			NASA DATA BASELINE NEW									
	COMM AND TO 8066 MID DECK V		MONITO	OR	•							
LEAD ANALYST:	W.C. LONG											
ASSESSMENT:	N.											
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM HDW/FUNC A B C												
HDW/FU	С	1111										
NASA [ 3 /3 IOA [ 3 /3	] [	] [	] [	]	[ ] *							
COMPARE [ /	] [	] [	] [	]	[ ]							
RECOMMENDATIONS:	(If diff	erent fro	om NASA	)								
[ /	] [	] [	] [	] (A	[ ] DD/DELETE)							
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]												
REMARKS: LOSS OF OUTPUT P IN AGREEMENT.	REMARKS: LOSS OF OUTPUT PRESENTS WORST CASE CONDITION. CRITICALITIES ARE											

ASSESSME ASSESSME NASA FME		1	Vasa Base	LINE		]							
SUBSYSTE MDAC ID: ITEM:			COMM 8066 MID				er mo	NITO	₹				
LEAD ANA	LYST	:	W.C.	LONG	3								
ASSESSME	NT:												
	CRIT	ICAL LIGH		F	REDUN	DANC	SCR	EENS			CII		
	2		111	ri									
NASA IOA	[ 3 [ 3	/3 /3	]	[	]	[	]	[	]		[	] *	
COMPARE	[	/	]	[	]	[	]	[	]		[	]	
RECOMMEN	DATI	ons:	(I	f dif	fere	nt fi	om N	ASA)					
	[	/	1	[	]	[	]	[	]	(A	[ DD/I	] DELETE	
* CIL RE	* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]												
	INADEQUATE [ ] REMARKS: LOSS OF OUTPUT PRESENTS WORST CASE CONDITION. CRITICALITIES ARE IN AGREEMENT.												

ASSESSME ASSESSME NASA FME	NT ID:					N	IASA DAT BASELIN NE		· ]			
SUBSYSTEMDAC ID:		COMM AN 8066 MID DEC			R MON	IOTOR	t.					
LEAD ANA	LYST:	W.C. LO	NG									
ASSESSME	NT:											
J	CRITICAL		REDUN	DANCY	SCRI	EENS		CII				
	FLIGH HDW/FU	_	В		c	:	ITEM					
NASA IOA	[ 3 /3 [ 3 /3	] [	с а в с ] [ ] [ ] ] [ ] [ ]									
COMPARE	[ /	] [	3	[	]	[	]	[	] .			
RECOMMEN	DATIONS:	(If d	iffere	nt fro	om NA	ASA)						
•	[ /.	]_ [	3	[	]	[	] (	[ ADD/I	] DELETE)			
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ] INADEQUATE [ ]												

ASSESSMENT ASSESSMENT NASA FMEA	ID:	3/05/88 COMTRK- 3.3.9					SA DATA: BASELINE NEW					
SUBSYSTEM: MDAC ID: ITEM:		COMM AN 8066 MID DEC			NDER	MONI	TOR					
LEAD ANALY	ST:	W.C. LC	ONG									
ASSESSMENT												
CF	RITICALI		RE	DUNDA	NCY	SCREE	NS		CIL	r		
	FLIGHT HDW/FUNC A B C											
NASA [ IOA [	3 /3 3 /3	] [	]	[	] ;	k						
COMPARE [	: /	] [	[	]	[	]	[	1	[	]		
RECOMMENDA	TIONS:	(If d	liff	erent	fro	m NAS	A)					
٠ (	. /	] [	[	]	[	]	[		[ DD/DE	_	re)	
* CIL RETE	ENTION I	RATIONAI	LE:	(If a	ppli	cable	AI	EQUATE EQUATE	[ X	]		
	EMARKS: OSS OF OUTPUT PRESENTS WORST CASE CONDITION. CRITICALITIES ARE N AGREEMENT.											

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-80 3.5.1	66F		NASA DAT BASELIN NE									
SUBSYSTEM: MDAC ID: ITEM:	COMM AND S 8066 MID DECK		ER MON	ITOR									
LEAD ANALYST:	W.C. LONG												
ASSESSMENT:													
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM													
HDW/FU	TIEM												
NASA [ 3 /3 IOA [ 3 /3	HDW/FUNC A B C  [3/3] [] [] [] * [3/3] [] [] []												
COMPARE [ /	] [	] [	]	[ ]	[ ]								
RECOMMENDATIONS:	(If dif	ferent f	rom NA	SA)									
[ /	) [	] [	j՝	[ ] (	[ ] ADD/DELETE)								
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]													
REMARKS: LOSS OF OUTPUT P IN AGREEMENT.	REMARKS: LOSS OF OUTPUT PRESENTS WORST CASE CONDITION. CRITICALITIES ARE												

ASSESSME ASSESSME NASA FME	NT I		N	IASA DA BASELI	INE		]	#					
SUBSYSTE MDAC ID:			COMM 8066 MID D						 }				
LEAD ANA	LYST	:	W.C.	LONG									
ASSESSME	NT:												
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM													
FLIGHT ITEN HDW/FUNC A B C												M	
NASA IOA	[ 3 [ 3	/3 /3	]	[	]	[	]	]	]		[	]	*
COMPARE	[	/	]	[	]	. [	]	[	]		[	]	
RECOMMEN	DATI	ons:	(If	dif	ferer	nt fr	om N	ASA)					
	[	/	]	[	j	[	- ]	[	]	(AI	[ DD/D:	] ELI	ETE)
* CIL RE	CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]												

ASSESSME ASSESSME NASA FME	NT ID:			66H			N	IASA DA' BASELII N		]		
SUBSYSTE MDAC ID: ITEM:		COMM 2 8066 MID DI				R MOI	VITOF	Ł				
LEAD ANA	LYST:	W.C. 1	LONG									
ASSESSME	NT:											
	CRITICA FLIG		R	EDUNI	DANCY	SCRI	EENS		CII			
	HDW/F		A		В		C	:		TIDM		
NASA IOA	[ 3 /3 [ 3 /3	]	]	]	[	]	[	]	[ [	] * ]		
COMPARE	[ /	1	[	]	[	]	[	]	,[	3		
RECOMMEN	DATIONS	: (If	dif	ferer	nt fr	om N2	ASA)					
	[ /	]	[	]	[	]	[	]	[ (ADD/I	] DELETE)		
* CIL RE	TENTION	RATION	ALE:	(If	appl	icab	Ā	DEQUAT	-	<b>(</b> ]		
REMARKS: LOSS OF IN AGREE		PRESENT	S WO	RST (	CASE (	COND	ITION	. CRI	TICAL	TIES ARE		

ASSESSMI ASSESSMI NASA FMI	ENT :	ID:	COMTR	K-80		IASA BASE			]				
SUBSYSTIMDAC ID:			COMM 8066 MID D										
LEAD AND	ALYS!	r:	W.C.	LONG	<b>;</b>								
ASSESSMI	ENT:												
			ITY	R	EDUN	DANCY	SCR	REENS			CI		
FLIGHT HDW/FUNC A B C											1.1	EM	
NASA IOA	[ :	3 /3 3 /3	]	[	]	[	]	[	]		[	]	*
COMPARE	[	/	]	[	]	[	]	[	]		[	]	
RECOMME	NDAT:	cons:	(If	dif	fere	nt fr	om N	IASA)					
	[	/	]	[	]	[	]	[	]	(AI	[ \D(	DELE	ETE)
* CIL RI		rion	RATION	ALE:	(If	appl	icab	A	DEQU.		[	x ]	
REMARKS LOSS OF IN AGRE	OUT		RESENT	s wo	RST	CASE	CONE	ITION	r. c:	RITI	CAL	ITIE	S ARE

ASSESSME	SSESSMENT DATE: 3/05/88 NASA DATESESSMENT ID: COMTRK-8066J BASELINASA FMEA #: 3.5.5 NE										-	]	
SUBSYSTEMDAC ID:			COMM 8066 MID D				er mo	NITOF	ŧ				
LEAD ANA	LYST	:	W.C.	LONG	}								
ASSESSME	ASSESSMENT:												
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM													
FLIGHT HDW/FUNC A B C													
NASA IOA	[ 3 [ 3	/3 /3	]										
COMPARE	ſ	/	]	[	1	[	]	[	]	٠	[	]	
RECOMMEN	DATI	ons:	(If	dif	ffere	nt fi	com N	IASA)					
	ι.	1.	1	[	]	[	]	[	]	(A		] DELET	'E)
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]													
	INADEQUATE [ ] REMARKS: LOSS OF OUTPUT PRESENTS WORST CASE CONDITION. CRITICALITIES ARE IN AGREEMENT.												

ASSESSME ASSESSME NASA FME	NT ID:	: 3/05 COMT 3.5.			]	NASA BASE	LINE		] K ]			
SUBSYSTE MDAC ID: ITEM:		COMM 8066 MID			:K IFINDI	er mo	NITO	R			<u>.</u> .	
LEAD ANA	LYST:	W.C.	LONG	3				-	÷			
ASSESSME	NT:											
	CRITICA FLIG		I	REDUN	DANCY	SCR	EENS			CII	-	
	HDW/F		7	F	3	C			111	214		
NASA IOA	[ 3 /3 [ 3 /3	]	[	]	[	] ]	] [	]		[ [	] * ]	
COMPARE	[ /	]	[	]	[	]	[	]		[	]	
RECOMMEN	DATIONS	: (I	f di	ffere	nt fr	om N	ASA)					
	[ /	]	[	]	[	]	[	]	(A	[ DD/[	] DELET	E)
* CIL RE	CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]											

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:		66L		NASA DATA: BASELINE [ ] NEW [ X ]							
SUBSYSTEM: MDAC ID: ITEM:	8066	OMM AND TRACK 066 ID DECK VIEWFINDER MONITOR									
LEAD ANALYST: W.C. LONG											
ASSESSMENT:											
CRITICAL: FLIGH		REDUNDAN	ICY SCRE	ENS		CIL					
HDW/FU			В	С			•				
NASA [ 3 /3 IOA [ 3 /3	] [	] [	]	[	]	[	] * ]				
COMPARE [ /	] [	] [	]	[	]	[	]				
RECOMMENDATIONS:	(If dif	ferent	from NA	SA)							
[ /	] [	] [	[ ]	[	] . (A)	[ DD/D:	] ELETE)				
* CIL RETENTION REMARKS:	RATIONALE:	(If ag	pplicabl	ΑI	DEQUATE DEQUATE		]				
LOSS OF OUTPUT PRESENTS WORST CASE CONDITION. CRITICALITIES ARE IN AGREEMENT.											

ASSESSME ASSESSME NASA FME	NT I	D:	COMT	RK-80	)66 <b>M</b>			1	NASA BASE	LINE		; ;	
SUBSYSTE MDAC ID: ITEM:	M:		COMM 8066 MID			K FINDE		NITO	र				
LEAD ANA	LYST	?:	W.C.	LONG	3								
ASSESSME	NT:												
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM													
	_	W/FU		7	<b>\</b>	E	3	(			IIE	iri	
NASA IOA	[ 3	/3	]	[	]	]	]	[	]		[	] * ]	
COMPARE	[	/	]	[	]	[	]	[	3		[	]	
RECOMMEN	DATI	ons:	(II	f dif	fere	nt fr	om N	ASA)					
	[	/	]	[	]	[	1	[	]	(Al	[ DD/D	] ELETI	E)
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]													
LOSS_OF	REMARKS: LOSS OF OUTPUT PRESENTS WORST CASE CONDITION. CRITICALITIES ARE IN AGREEMENT.												

ASSESSME	SESSMENT DATE: 3/05/88 SESSMENT ID: COMTRK-8066N SA FMEA #: 3.5.9							N	IASA D BASEI	INE			
SUBSYSTEM MDAC ID: ITEM:			8066	OMM AND TRACK 066 ID DECK VIEWFINDER MONITOR									
LEAD ANA	LYST	:	W.C.	LONG	;								
ASSESSME	NT:												
•	CRIT			F	REDUN	DANCY	SCR	EENS			CIL		
		LIGH W/FU	NC								111	1.1	
NASA IOA	[ 3 [ 3	/3 /3	]	[	]	[	]	[ [	]		[	] * ]	
COMPARE	[	/	]	[	1	[	]	[	]	-	[	]	
RECOMMEN	DATI	ons:	(If	dif	fere	nt fr	om N	ASA)					
	[	/	]	[	]	Γ	]	[ .	]	(A	[ DD/E	] ELET	E)
* CIL RE	TENT	ION	RATION	ALE:	(If	appl	icab	A	DEQU <i>E</i>				
LOSS OF	REMARKS: LOSS OF OUTPUT PRESENTS WORST CASE CONDITION. CRITICALITIES ARE IN AGREEMENT.												

ASSESSMENT DATE: 3/05/88 ASSESSMENT ID: COMTRK-80660 NASA FMEA #: 3.5.10							NASA DATA: BASELINE [ ] NEW [ X ]							
SUBSYSTE MDAC ID: ITEM:			COMM 8066 MID	5								. 3		
LEAD ANA	LYS	T:	W.C.	LONG	3									
ASSESSME	NT:												E <u>B</u> : .	
			LITY	1	REDUN	DANC	SCR	EENS			CII			
		FLIGH DW/FU	IT INC	2	A	I	3	(	2		ITE	in .		
NASA IOA	[	3 /3 3 /3	]	]	]	[	]	[	]		[	] *		
COMPARE	[	/	]	C	]	ſ	]	נ	]		[	]		
RECOMMEN	DAT	ions:	(1	f di	ffere	nt fi	com N	ASA)						
	[	/	]	[	]	(	]	[	]	(A		] ELET		
* CIL RE	TEN'	TION	RATIO	NALE:	: (If	appl	licab	1	ADEQUA	ATE				
REMARKS: LOSS OF IN AGREE			RESEN	ITS WO	ORST	CASE	COND	OITION	1. C	RITI	CALI	TIES	ARE	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:				ASA DATA: BASELINE NEW						
SUBSYSTEM: MDAC ID: ITEM:	8067	OMM AND TRACK 067 ONSOLE MONITOR								
LEAD ANALYST:	W.C. LO	NG								
ASSESSMENT:										
CRITICAL FLIGH		REDUNDA	NCY SC	REENS		CIL ITEM				
	NC	A	В	С						
NASA [ 3 /1R IOA [ 2 /1R	] [	P ] P ]	[ P ] [ P ]	[ P [ P	]	[ x ] *				
COMPARE [ N /	] [	]	[ ]	[	]	[ N ]				
RECOMMENDATIONS:	(If d	ifferent	from	NASA)						
[ /	] [	1	[ ]	[	] (AI	[ ] DD/DELETE)				
* CIL RETENTION	RATIONAL	E: (If a	applica	Al	DEQUATE DEQUATE	•				
REMARKS: LOSS OF OUTPUT FROM BOTH CM WOULD MAKE TVC POINTING AND PICTURE ADJUSTMENTS DIFFICULT IF NOT IMPOSSIBLE RESULTING IN POSSIBLE LOSS OF TV COVERAGE AND POTENTIAL LOSS OF VEHICLE AND CREW. GROUND MONITORS COULD POTENTIALLY PROVIDE ASSISTANCE TO DOWNGRADE CRITICALITY TO 3/1R CONSIDERING THAT RAPID CONTACT CAN BE										

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8067		NASA DATA: BASELINE [ ] NEW [ X ]							
SUBSYSTEM: MDAC ID: ITEM:	8067	COMM AND TRACK 1067 CONSOLE MONITOR								
LEAD ANALYST:	W.C. LONG									
ASSESSMENT:										
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM										
HDW/FU		В	С	IIEM						
NASA [ 3 /1R IOA [ 2 /1R	] [ P ]	[ P ] [ [ P ] [	P ] P ]	[ x ] *						
COMPARE [ N /	] [ ]	[ ] [	]	[ N ]						
RECOMMENDATIONS:	(If differ	rent from NASA)								
. [ /	1 [ ]	[ ] [	] (AI	[ ] DD/DELETE)						
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEOUATE [ ]										
INADEQUATE [ ] REMARKS: LOSS OF OUTPUT FROM BOTH CM WOULD MAKE TVC POINTING AND PICTURE ADJUSTMENTS DIFFICULT IF NOT IMPOSSIBLE RESULTING IN POSSIBLE LOSS OF TV COVERAGE AND POTENTIAL LOSS OF VEHICLE AND CREW. GROUND MONITORS COULD POTENTIALLY PROVIDE ASSISTANCE TO DOWNGRADE CRITICALITY TO 3/1R CONSIDERING THAT RAPID CONTACT CAN BE										

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8067B	NASA DATA: BASELINE [ ] NEW [ X ]						
	COMM AND TRACK 8067 CONSOLE MONITOR	R						
LEAD ANALYST:	W.C. LONG							
ASSESSMENT:								
CRITICAL FLIGH		ANCY SCREENS	CIL ITEM					
HDW/FU		ВС						
NASA [ 3 /1R IOA [ 2 /1R	] [ P ] ] [ P ]	[ P ] [ P ] [ P ] [ P ]	[ x ] *					
COMPARE [ N /	] [ ]	[ ] [ ]	[ N ]					
RECOMMENDATIONS:	(If different	t from NASA)						
\ ]	] [ ]	[. ] [ ]	[ ] [ADD/DELETE)					
* CIL RETENTION	RATIONALE: (If a	applicable) ADEQUATE INADEQUATE	-					
ADJUSTMENTS DIFF	ICULT IF NOT IMPAGE AND POTENTIA	LD MAKE TVC POINTING POSSIBLE RESULTING I AL LOSS OF VEHICLE A LY PROVIDE ASSISTANC	N POSSIBLE AND CREW.					

CRITICALITY TO 3/1R CONSIDERING THAT RAPID CONTACT CAN BE

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8067C	NASA DATA: BASELINE [ ] NEW [ X ]								
	COMM AND TRACK 8067 CONSOLE MONITOR									
LEAD ANALYST:	W.C. LONG									
ASSESSMENT:										
CRITICALITY REDUNDANCY SCREENS CIL ITEM										
<del> </del>	NC A B	C								
NASA [ 3 /1R IOA [ 2 /1R	] [ P ] [ P ] ] [ P ]	[P] [X]*								
COMPARE [ N /	] [ ] [ ]	[ ] [ n ]								
RECOMMENDATIONS:	(If different from	NASA)								
[ /	] [ ] [ ]	[ ] [ ] (ADD/DELETE)								
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]										
ADJUSTMENTS DIFFI LOSS OF TV COVERS GROUND MONITORS	CULT IF NOT IMPOSSIBLAGE AND POTENTIAL LOSS	TVC POINTING AND PICTURE E RESULTING IN POSSIBLE OF VEHICLE AND CREW. TIDE ASSISTANCE TO DOWNGRADE								

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8	067D	: [ x ]							
MDAC ID:	8067	COMM AND TRACK 8067 CONSOLE MONITOR								
LEAD ANALYST:	W.C. LON	īG								
ASSESSMENT:	ASSESSMENT:									
CRITICAL FLIGH	T		ICY SCREE		CIL ITEM					
HDW/FU	NC	A	В	С						
NASA [ 3 /1R IOA [ 2 /1R	] [	P ] [ P ] [	P ] P ]	[ P ] [ P ]	[ x ] *					
COMPARE [ N /	] [	] [	]	[ ]	[и]					
RECOMMENDATIONS:	(If di	fferent	from NAS	SA)						
[ /	] [	] [	. 1	[ ] (A	[ ] DD/DELETE)					
* CIL RETENTION	RATIONALE	E: (If ag	oplicable	ADEQUATE						
REMARKS: LOSS OF OUTPUT F ADJUSTMENTS DIFF LOSS OF TV COVER GROUND MONITORS CRITICALITY TO 3	ICULT IF AGE AND I COULD POT	NOT IMPO POTENTIAL NATIALLY	DSSIBLE F L LOSS OF PROVIDE	RESULTING IN F VEHICLE AN E ASSISTANCE	POSSIBLE D CREW. TO DOWNGRADE					

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-		NASA DATA BASELINE NEW						
SUBSYSTEM: MDAC ID: ITEM:	8067	COMM AND TRACK 8067 CONSOLE MONITOR							
LEAD ANALYST:	W.C. LO	NG							
ASSESSMENT:									
CRITICAL FLIGH	CIL ITEM								
HDW/FU		A	В	<b>C</b>	TIEM				
NASA [ 3 /1R IOA [ 2 /1R	] [	P ] P ]	[ P ] [ P ]	[ P ] [ P ]	[ X ] *				
COMPARE [ N /	] [	]	[ ]	[ ]	[ N ]				
RECOMMENDATIONS:	(If d	ifferent	from NAS	SA)					
[ /.	] [	]	[ ]	[ ] (A)	[ ] DD/DELETE)				
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]									
REMARKS:									
LOSS OF OUTPUT F									
ADJUSTMENTS DIFF									
GROUND MONITORS									
CRITICALITY TO 3,									
MAINTAINED.									

ASSESSME ASSESSME NASA FME	NT	I	D:	CO	3/05/88 COMTRK-8067F 7.1.7						NASA DATA: BASELINE [ ] NEW [ X ]						]		
SUBSYSTEMDAC ID:	M:			80	MM A 67 NSOI														
LEAD ANA	LY	ST	:	W.	c. 1	LOI	ŊĢ												
ASSESSME	NT	:																	
	CR:		ICAL LIGH		•		RI	EDUI	NDA	NCY	sc	REENS	5				IL TE		
	1		W/FU				A			В			С			•			
NASA IOA	[	3 2	/1R /1R	]		[	P P	]		[ P	]	[ [	P P	]		]	х	]	*
COMPARE	[	N	/	]		[		]		[	]	[		]		[	N	]	
RECOMMEN	DA'	TI(	ons:		(If	đ.	if:	fer	ent	fr	om	NASA	)						
	[		/	]		[		]		[	]	Ι		]	(.			EL.	ETE)
* CIL RE	TE:	NT:	ION	RAT	'ION	AL.	Е:	(I	f a	ppl	ica				JATE JATE		X	]	
REMARKS: LOSS OF	ΟÜ	ТP	UT F	ROM	BO!	ГH	CI	y W	OUL	D M	AKE	TVC	PC	INT	ring	AN	D	ΡI	CTUR!

ADJUSTMENTS DIFFICULT IF NOT IMPOSSIBLE RESULTING IN POSSIBLE LOSS OF TV COVERAGE AND POTENTIAL LOSS OF VEHICLE AND CREW. GROUND MONITORS COULD POTENTIALLY PROVIDE ASSISTANCE TO DOWNGRADE CRITICALITY TO 3/1R CONSIDERING THAT RAPID CONTACT CAN BE MAINTAINED.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8	3067G	[ ] [ x ]							
SUBSYSTEM: MDAC ID: ITEM:	8067	COMM AND TRACK 8067 CONSOLE MONITOR								
LEAD ANALYST:	W.C. LON	1G								
ASSESSMENT:										
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM										
	NC	A	В	С	TIEM					
NASA [ 3 /1R IOA [ 2 /1R	] [	P ] [ P ] [	P ] [ P ] [	P ] P ]	[ x ] *					
COMPARE [ N /	] [	] [	] [	]	[ N ]					
RECOMMENDATIONS:	(If di	ifferent	from NASA	)						
[ /	] [	] [	] [	] (AI	[ ] DD/DELETE)					
* CIL RETENTION	RATIONALE	E: (If ap		ADEQUATE NADEQUATE	[ X ] [ ]					
REMARKS: LOSS OF OUTPUT F ADJUSTMENTS DIFF LOSS OF TV COVER GROUND MONITORS CRITICALITY TO 3 MAINTAINED.	ICULT IF AGE AND F COULD POT	NOT IMPOS POTENTIAL PENTIALLY	SSIBLE RE LOSS OF PROVIDE	SULTING IN VEHICLE ANI ASSISTANCE	POSSIBLE CREW. TO DOWNGRADE					

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8	067H		ASA DATA: BASELINE NEW			
SUBSYSTEM: MDAC ID: ITEM:	8067	COMM AND TRACK 1067 CONSOLE MONITOR					
LEAD ANALYST:	W.C. LON	G					
ASSESSMENT:							
CRITICAL FLIGH		REDUNDANC	Y SCREENS		CIL ITEM		
HDW/FU		<b>A</b> 1	ВС				
NASA [ 3 /1R IOA [ 2 /1R	] [	P ] [ ]	P ] [ P P ] [ P	]	[ x ] *		
COMPARE [ N /	] [	] [	] [	]	[и]		
RECOMMENDATIONS:	(If di	fferent f	rom NASA)				
[ /	] [	] [	] [	] (AI	[ ] DD/DELETE)		
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]							
REMARKS: LOSS OF OUTPUT FROM BOTH CM WOULD MAKE TVC POINTING AND PICTURE ADJUSTMENTS DIFFICULT IF NOT IMPOSSIBLE RESULTING IN POSSIBLE LOSS OF TV COVERAGE AND POTENTIAL LOSS OF VEHICLE AND CREW. GROUND MONITORS COULD POTENTIALLY PROVIDE ASSISTANCE TO DOWNGRADE							

MAINTAINED.

CRITICALITY TO 3/1R CONSIDERING THAT RAPID CONTACT CAN BE

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-806 7.1.10	571	NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	COMM AND T 8067 CONSOLE MO			•
LEAD ANALYST:	W.C. LONG			
ASSESSMENT:		* - <b>-</b> *	ž.	± 2
CRITICAL: FLIGHT	ITY RE	DUNDANCY S	SCREENS	CIL ITEM
HDW/FU		В	C 2.227. 1.41	III
NASA [ 3 /1R IOA [ 2 /1R	] [ P	] [ P ]	[ P ] [ P ]	[
COMPARE [ N /	] [	] _ [ ]	] [ ]	[ N ]
RECOMMENDATIONS:	(If diff	erent from	n NASA)	
[ /	] [	] [ ]	] [ ] (AC	[ ] D/DELETE)
* CIL RETENTION I	RATIONALE:	(If applion	cable) ADEQUATE INADEQUATE	[ X ]
REMARKS: LOSS OF OUTPUT FE ADJUSTMENTS DIFF LOSS OF TV COVERA GROUND MONITORS OF CRITICALITY TO 3, MAINTAINED.	CULT IF NO AGE AND POT COULD POTEN	T IMPOSSIE ENTIAL LOS TIALLY PRO	BLE RESULTING IN BS OF VEHICLE AND DVIDE ASSISTANCE	POSSIBLE CREW. TO DOWNGRADE

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8	NASA DATA: BASELINE [ ] NEW [ X ]						
	COMM AND 8067 CONSOLE							
LEAD ANALYST:	W.C. LON	1G						
ASSESSMENT:								
CRITICAL: FLIGHT		REDUNDANG	CY SCREENS	3	CIL ITEM			
HDW/FUI		A	В	С	± + 2011			
NASA [ 3 /1R IOA [ 2 /1R	] [	P ] [ P ] [	P ] [ P ] [	P ] P ]	[ x ] *			
COMPARE [ N /	] [	] [	] [	]	[ N ]			
RECOMMENDATIONS:	(If di	ifferent :	from NASA)	ı				
[ /	] [	] [	] [	] (A)	[ ] DD/DELETE)			
* CIL RETENTION	* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]							
REMARKS: LOSS OF OUTPUT FI ADJUSTMENTS DIFF: LOSS OF TV COVER: GROUND MONITORS ( CRITICALITY TO 3, MAINTAINED.	ICULT IF AGE AND I COULD POI	NOT IMPOS POTENTIAL PENTIALLY	MAKE TVC SSIBLE RES LOSS OF V PROVIDE A	POINTING A SULTING IN FEHICLE AN	AND PICTURE POSSIBLE D CREW. TO DOWNGRADE			

ASSESSMENT DATE: 3/05/88 ASSESSMENT ID: COMTRK-80 NASA FMEA #: 7.1.12					67K	BASELINE [ ] NEW [ X ]						
SUBSYSTEM MDAC ID: ITEM:			COMM 2 8067 CONSO									
LEAD ANAL	YST	:	W.C. 3	Long								
ASSESSMEN	T:											
C	FI	ICALI LIGHT		RI A		AN(	CY B	SCREE		С		CIL
NASA IOA	[ 3	/1R /1R	]	[ P	]	[	P P	]	[	P P	]	[ x ] *
COMPARE	[ N	/	]	[	]	[		]	[		]	[ N ]
RECOMMEND	ATIC	ONS:	(If	dif	feren	t i	fro	om NAS	SA)			
	[	/	]	[	]	[		]	[		] (A)	[ ] DD/DELETE)
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ] INADEQUATE [ ]												
ADJUSTMEN LOSS OF T	TS I V CO NITO TY 1	OIFFI OVERA ORS (	CULT : AGE ANI COULD :	F NO POTEI	T IMI TENTI TIALI	POS AL LY	SSI LC PF	BLE R SS OF ROVIDE	RES V	UI EH SS	TING IN ICLE ANI ISTANCE	CREW. TO DOWNGRADE

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8067	L	NASA DATA: BASELINE NEW				
	8067	COMM AND TRACK 8067 CONSOLE MONITOR					
LEAD ANALYST:	W.C. LONG						
ASSESSMENT:							
FLIGH'	r	UNDANCY SCREENS	**	CIL ITEM			
HDW/FU	NC A	В	С				
NASA [ 3 /1R IOA [ 2 /1R	] [ P ] ] [ P ]	[ P ] [ [ P ] [	P ] P ]	[ x ] *			
COMPARE [ N /	] [ ]	[ ] [	]	[ N ]			
RECOMMENDATIONS:	(If diffe	rent from NASA)	+ <del>-</del>				
[ /	] [ ]	[ ] [	] (Al	[ ] DD/DELETE)			
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]							
INADEQUATE [ ]  REMARKS:  LOSS OF OUTPUT FROM BOTH CM WOULD MAKE TVC POINTING AND PICTURE  ADJUSTMENTS DIFFICULT IF NOT IMPOSSIBLE RESULTING IN POSSIBLE  LOSS OF TV COVERAGE AND POTENTIAL LOSS OF VEHICLE AND CREW.  GROUND MONITORS COULD POTENTIALLY PROVIDE ASSISTANCE TO DOWNGRADE  CRITICALITY TO 3/1R CONSIDERING THAT RAPID CONTACT CAN BE  MAINTAINED.							

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-80	67 <b>M</b>	NASA DATA: BASELINE [ ] NEW [ X ]					
SUBSYSTEM: MDAC ID: ITEM:	COMM AND 8067 CONSOLE M							
LEAD ANALYST:	W.C. LONG	}						
ASSESSMENT:								
CRITICAL: FLIGHT HDW/FUI	r	EDUNDANCY	SCREENS C	CIL ITEM				
NASA [ 3 /3 IOA [ 2 /1R	] [ p	] [ ] [ P	] [ ] ] [ P ]	[ ] * [ x ]				
COMPARE [ N /N	] [ N	] [ n	] [N]	[ N ]				
RECOMMENDATIONS:	(If dif	ferent fro	m NASA)					
[ /	] [	] [	] [ ] (	[ ] ADD/DELETE)				
* CIL RETENTION 1	RATIONALE:	(If appli	cable) ADEQUATE INADEQUATE					
REMARKS: LOSS OF CRT RESULT CONDITION. NON O			D PRESENTS WORS					

ASSESSME ASSESSME NASA FME	NT	II			TRI	<b>5–</b> 8	306	57N						SA DA BASELI N		[		]	
SUBSYSTEM: COMM AND TRACK MDAC ID: 8067 ITEM: CONSOLE MONITOR																			
LEAD ANA	LYS	5 <b>T</b> :	:	w.c	:. I	<b>LO1</b>	1G												
ASSESSME	NT:	:																	
	CR		ICAL:				RI	DUNI	DAN	CY	SCI	REENS	3			CI	L	Æ	
	I		N/FUI	_			A			В			С				, <b>11</b> 1	•	
NASA IOA	[	3 2	/3 /1R	]		]	P	]	[	P	]	]	P	]		]	x	]	*
COMPARE	[	N	/N	]		[	N	]	[	N	]	[	N	]		[	N	]	
RECOMMEN	IDA!	ΓI	ons:	(	Ίf	d:	ifi	fere	nt	fr	om 1	NASA	)						
	[		/	]		[		]	[		]	[	-	]	(AI	[ DD/	'DF	ELI ]	ETE)
* CIL RI	ETE	NT:	ION 1	RATI	ONZ	ALI	€:	(If	ap	pl.	ical			DEQUA'		[	x	]	
REMARKS: LOSS OF CRT RESULTS IN LOSS OF CM AND PRESENTS WORST CASE CONDITION. NON CRITICAL FUNCTIONS WERE NOT ANALYSED.																			

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-806	58	NASA DAT BASELIN NE					
SUBSYSTEM: MDAC ID: ITEM:	COMM AND T 8068 CONSOLE MO	TRACK ONITOR (CRT)	)					
LEAD ANALYST:	W.C. LONG							
ASSESSMENT:	ASSESSMENT:							
CRITICAL FLIGH		EDUNDANCY SO	CREENS	CIL ITEM				
HDW/FU		В	С	IIEM				
NASA [ 3 /1R IOA [ 2 /1R	] [ P	] [ ] ] [ P ]	[ ] [ P ]	[				
COMPARE [ N /	] [ N	] [ N ]	[ N ]	[ <b>N</b> ]				
RECOMMENDATIONS:	(If diff	ferent from	NASA)					
[ /	] [	] [ ]	[ ]	[ ADD/DELETE)				
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]								
INADEQUATE [ ]  REMARKS:  LOSS OF OUTPUT FROM BOTH CM WOULD MAKE TVC POINTING AND PICTURE ADJUSTMENTS DIFFICULT IF NOT IMPOSSIBLE RESULTING IN POSSIBLE LOSS OF TV COVERAGE AND POTENTIAL LOSS OF VEHICLE AND CREW.  GROUND MONITORS COULD POTENTIALLY PROVIDE ASSISTANCE TO DOWNGRAD CRITICALITY TO 3/1R CONSIDERING THAT RAPID CONTACT CAN BE MAINTAINED.								

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8068A	NASA DATA: BASELINE [ ] NEW [ X ]					
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8068 CONSOLE MONITOR	(CRT)					
LEAD ANALYST:	W.C. LONG						
ASSESSMENT:							
CRITICAL: FLIGH	r	Y REDUNDANCY SCREENS					
HDW/FU	NC A	В С					
NASA [ 3 /1R IOA [ 2 /1R		[ ] [ ] [ P ] [ P ]	[ x ] *				
COMPARE [ N /	] [N]	[и] [и] .	[ N ]				
RECOMMENDATIONS:	(If different	from NASA)					
[ /	] [ ]	[ ] [ ]	[ ] ADD/DELETE)				
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]							
ADEQUATE [ X ] INADEQUATE [ ] REMARKS: LOSS OF OUTPUT FROM BOTH CM WOULD MAKE TVC POINTING AND PICTURE ADJUSTMENTS DIFFICULT IF NOT IMPOSSIBLE RESULTING IN POSSIBLE LOSS OF TV COVERAGE AND POTENTIAL LOSS OF VEHICLE AND CREW. GROUND MONITORS COULD POTENTIALLY PROVIDE ASSISTANCE TO DOWNGRADE CRITICALITY TO 3/1R CONSIDERING THAT RAPID CONTACT CAN BE							

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:							
SUBSYSTEM: MDAC ID: ITEM:							
LEAD ANALYST:	W.C. LONG						
ASSESSMENT:			Programme Control				
CRITICAL FLIGH	ITY REDUNDA	ANCY SCREENS	CIL ITEM				
	NC A	ВС	11111				
NASA [ 3 /1R IOA [ 2 /1R	] [ ] ]	[ ] [ ] [ P ] [ P ]	[ ] * [ x ]				
COMPARE [ N /	] [ N ]	[ N ]	[ N ]				
RECOMMENDATIONS:	(If different	t from NASA)					
[ /	] [ ]	[ ] [ ] <sub>.</sub>	[ ] .DD/DELETE)				
	* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]						
REMARKS: LOSS OF OUTPUT FROM BOTH CM WOULD MAKE TVC POINTING AND PICTURE ADJUSTMENTS DIFFICULT IF NOT IMPOSSIBLE RESULTING IN POSSIBLE LOSS OF TV COVERAGE AND POTENTIAL LOSS OF VEHICLE AND CREW. GROUND MONITORS COULD POTENTIALLY PROVIDE ASSISTANCE TO DOWNGRADE CRITICALITY TO 3/1R CONSIDERING THAT RAPID CONTACT CAN BE MAINTAINED.							

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8068C	NASA DATA BASELINE NEW	-				
	COMM AND TRACK 8068 CONSOLE MONITOR	(CRT)					
LEAD ANALYST:	W.C. LONG		·				
ASSESSMENT:							
CRITICAL FLIGH		CY SCREENS	CIL ITEM				
	NC A	В С					
NASA [ 3 /1R IOA [ 2 /1R	[ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]	] [ ] P ] [ P ]	[ x ] *				
COMPARE [ N /	) [N][	N ] [ N ]	[ N ]				
RECOMMENDATIONS:	(If different	from NASA)					
[ /	] [ ] [	[ ] [ A	[ .DD/DELETE)				
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]							
REMARKS: LOSS OF OUTPUT FROM BOTH CM WOULD MAKE TVC POINTING AND PICTURE ADJUSTMENTS DIFFICULT IF NOT IMPOSSIBLE RESULTING IN POSSIBLE LOSS OF TV COVERAGE AND POTENTIAL LOSS OF VEHICLE AND CREW. GROUND MONITORS COULD POTENTIALLY PROVIDE ASSISTANCE TO DOWNGRADE CRITICALITY TO 3/1R CONSIDERING THAT RAPID CONTACT CAN BE							
MATHER THEN	•						

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8068D 7.1.5	NASA DATA: BASELINE [ ] NEW [ X ]						
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8068 CONSOLE MONITOR							
LEAD ANALYST:	W.C. LONG							
ASSESSMENT:								
CRITICAL: FLIGH	<del></del>	ANCY SCREENS	CIL ITEM					
HDW/FU		ВС						
NASA [ 3 /1R IOA [ 2 /1R	[ ] [ P ]	[ ] [ ] [ P ] [ P ]	[					
COMPARE [ N /	] [ N ]	[ N ] [ N ]	[ N ]					
RECOMMENDATIONS:	(If different	t from NASA)						
[ /	] [ ]	[ ] [ ] .	[ ] ADD/DELETE)					
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ] INADEQUATE [ ]								
ADEQUATE [ X ] INADEQUATE [ ]  REMARKS: LOSS OF OUTPUT FROM BOTH CM WOULD MAKE TVC POINTING AND PICTURE ADJUSTMENTS DIFFICULT IF NOT IMPOSSIBLE RESULTING IN POSSIBLE LOSS OF TV COVERAGE AND POTENTIAL LOSS OF VEHICLE AND CREW. GROUND MONITORS COULD POTENTIALLY PROVIDE ASSISTANCE TO DOWNGRADE CRITICALITY TO 3/1R CONSIDERING THAT RAPID CONTACT CAN BE MAINTAINED.								

	3/05/88 COMTRK-8068E 7.1.6	NASA DATA BASELINE NEW						
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8068 CONSOLE MONITOR	(CRT)						
LEAD ANALYST:	W.C. LONG							
ASSESSMENT:	ASSESSMENT:							
CRITICAL: FLIGH		CY SCREENS	CIL ITEM					
HDW/FU		в с	11111					
NASA [ 3 /1R IOA [ 2 /1R	] [ p ] [	P ] [ P ]	[ x ] *					
COMPARE [ N /	] [N][	и] [и]	[ N ]					
RECOMMENDATIONS:	(If different	from NASA)						
[ /	1 [ ] [	] [ ]	[ LDD/DELETE)					
* CIL RETENTION	RATIONALE: (If ap	plicable) ADEQUATE INADEQUATE	[ X ]					
ADJUSTMENTS DIFF LOSS OF TV COVER GROUND MONITORS	ICULT IF NOT IMPOS AGE AND POTENTIAL COULD POTENTIALLY	MAKE TVC POINTING SSIBLE RESULTING IN LOSS OF VEHICLE AN PROVIDE ASSISTANCE HAT RAPID CONTACT O	AND PICTURE I POSSIBLE ID CREW. TO DOWNGRADE					

MAINTAINED.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8068F	TTRK-8068F BASELINE					
	COMM AND TRACT 8068 CONSOLE MONITO						
LEAD ANALYST:	W.C. LONG						
ASSESSMENT:							
FLIGH'	ITY REDUNI F NC A	DANCY SCREENS B	<b>C</b> (1997)	CIL ITEM			
NASA [ 3 /1R IOA [ 2 /1R	] [ p ]	[ ] [ [ P ] [	P ]	[ x ] *			
COMPARE [ N /	] [ N ]	[ N ]	N ]	[ N ]			
RECOMMENDATIONS:	(If differe	nt from NASA)	I				
[ /	] [ ]	[ ] [	] (AD	[ ] DD/DELETE)			
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]  REMARKS: LOSS OF OUTPUT FROM BOTH CM WOULD MAKE TVC POINTING AND PICTURE ADJUSTMENTS DIFFICULT IF NOT IMPOSSIBLE RESULTING IN POSSIBLE LOSS OF TV COVERAGE AND POTENTIAL LOSS OF VEHICLE AND CREW. GROUND MONITORS COULD POTENTIALLY PROVIDE ASSISTANCE TO DOWNGRADE							
CRITICALITY TO 3							

	3/05/88 COMTRK-8068G 7.1.8	NASA DATA BASELINE NEW	[ x ]						
<del></del>	COMM AND TRACK 8068 CONSOLE MONITOR	(CRT)							
LEAD ANALYST:	W.C. LONG	C. LONG							
ASSESSMENT:	ASSESSMENT:								
CRITICAL: FLIGH HDW/FUI	T	CY SCREENS  B C	CIL ITEM						
NASA [ 3 /1R IOA [ 2 /1R	] [ ] [	P ] [ P ]	[ x ] *						
COMPARE [ N /	] [N][	и] [и]	[ N ]						
RECOMMENDATIONS:	(If different	from NASA)							
[ /	] [ ] [	] [ ] (A)	[ ] DD/DELETE)						
* CIL RETENTION 1	RATIONALE: (If ap	plicable) ADEQUATE INADEQUATE	[ X ] [ ]						
ADJUSTMENTS DIFFI LOSS OF TV COVER GROUND MONITORS	ICULT IF NOT IMPO AGE AND POTENTIAL COULD POTENTIALLY	MAKE TVC POINTING ASSIBLE RESULTING IN LOSS OF VEHICLE AND PROVIDE ASSISTANCE HAT RAPID CONTACT CA	POSSIBLE D CREW. TO DOWNGRADE						

MAINTAINED.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK- 7.1.9	/05/88 NASA DATA: OMTRK-8068H BASELINE .1.9 NEW						
SUBSYSTEM: MDAC ID: ITEM:	8068	D TRACK MONITOR	R (CRT)	en a				
LEAD ANALYST:	W.C. LO	NG	• .					
ASSESSMENT:					s description of the control of			
		REDUNDA	NCY SCREENS	5	CIL			
FLIGH HDW/FU		A	В	<b>c</b>	ITEM			
NASA [ 3 /1R IOA [ 2 /1R	] [	p ]	[ p ] [	P ]	[ x ] *			
COMPARE [ N /	] [	n j	[ и ] [	N ]	[ N ]			
RECOMMENDATIONS:	(If d	ifferent	from NASA	)				
[ /.	] [	1	[ ] [	] (A	[ ] DD/DELETE)			
* CIL RETENTION	RATIONAL	E: (If a						
			II	ADEQUATE NADEQUATE	[ X ] [ ]			
REMARKS: LOSS OF OUTPUT F	DOM DOMU	CM WOUL	D MAKE TUC	DOTNUTNO	AND DICTURE			
ADJUSTMENTS DIFF	ICULT IF	NOT IMP	OSSIBLE RES	SULTING IN	POSSIBLE			
LOSS OF TV COVERAGE AND POTENTIAL LOSS OF VEHICLE AND CREW. GROUND MONITORS COULD POTENTIALLY PROVIDE ASSISTANCE TO DOWNGRAD!								
GROUND MONITORS CRITICALITY TO 3								
MAINTAINED.	, 11. 00110				<del></del>			

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:		BASELINI NEV					
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8068 CONSOLE MONITOR	(CRT)					
LEAD ANALYST:	W.C. LONG						
ASSESSMENT:							
CRITICAL: FLIGHT		CY SCREENS	CIL				
HDW/FUI		в с					
NASA [ 3 /1R IOA [ 2 /1R		P ] [ P ]	[ ] * [ x ]				
COMPARE [ N /	] [N][	и] [и]	[ N ]				
RECOMMENDATIONS:	(If different	from NASA)					
[ /	] [ ] [	] [ ] (	[ ] ADD/DELETE)				
* CIL RETENTION	RATIONALE: (If ap	pplicable) ADEQUATE INADEQUATE					
REMARKS: LOSS OF OUTPUT FROM BOTH CM WOULD MAKE TVC POINTING AND PICTURE ADJUSTMENTS DIFFICULT IF NOT IMPOSSIBLE RESULTING IN POSSIBLE LOSS OF TV COVERAGE AND POTENTIAL LOSS OF VEHICLE AND CREW. GROUND MONITORS COULD POTENTIALLY PROVIDE ASSISTANCE TO DOWNGRADE CRITICALITY TO 3/1R CONSIDERING THAT RAPID CONTACT CAN BE							

MAINTAINED.

ASSESSME ASSESSME NASA FME	NT	I	D:		CO	MTR	K-8		68J	r								DA ELI N		[		]			
SUBSYSTE MDAC ID: ITEM:					80					CK TOR	(	(CI	(T)												
LEAD ANA	LY	ST	:		W.	c. :	LOI	NG																	
ASSESSME	ASSESSMENT:																								
CRITICALITY FLIGHT					RI	EDU	INDA	NC	CY	SC	REE	N	3					IL PEN							
	]		W/F					A				В				С					LIST	4			
NASA IOA	[	3 2	/1 /1	.R .R	]		[	P	]		[	P	]		[	P	]			[ [	X	]	*		
COMPARE	[	N	/		]		[	N	]		[	N	]		[	N	]			[	N	]			
RECOMMEN	DA!	ri	ons	:		(If	d:	ifi	fer	ent	f	fro	om I	NAS	A	) -									
	[		/		]		[		]		[		]		[		]		(AI		/DI		TE	3)	
* CIL RE	TE	NT:	ION	IR	AT	ION	ALI	Ξ:	(I	f ap	οľ	oli	.cal	ble				UAT		[	X	]			
REMARKS:											_									١					
LOSS OF ADJUSTME																									
LOSS OF																									
GROUND M CRITICAL																							ING	RADI	1
MAINTAIN				-/											_	-						-			

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:		NASA DATA: 068K BASELINE NEW							
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8068 CONSOLE MONITOR (								
LEAD ANALYST:	W.C. LONG	.C. LONG							
ASSESSMENT:	ASSESSMENT:								
CRITICALI FLIGHT		CY SCREENS	CIL						
HDW/FUN		ВС	ITEM						
NASA [ 3 /1R IOA [ 2 /1R		P ] [ P ]	[ x ] *						
COMPARE [ N /	] [ N ] [	иј [иј	[и]						
RECOMMENDATIONS:	(If different f	from NASA)							
. [ /	] [ ] [	] [ ] (AI	[ ] DD/DELETE)						
* CIL RETENTION F	RATIONALE: (If app								
		ADEQUATE INADEQUATE	[ X ]						
REMARKS: LOSS OF OUTPUT FROM BOTH CM WOULD MAKE TVC POINTING AND PICTURE ADJUSTMENTS DIFFICULT IF NOT IMPOSSIBLE RESULTING IN POSSIBLE LOSS OF TV COVERAGE AND POTENTIAL LOSS OF VEHICLE AND CREW. GROUND MONITORS COULD POTENTIALLY PROVIDE ASSISTANCE TO DOWNGRADE									

MAINTAINED.

CRITICALITY TO 3/1R CONSIDERING THAT RAPID CONTACT CAN BE

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8068 7.1.13	05/88 NASA DATA MTRK-8068L BASELINI 13 NEV							
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRA 8068 CONSOLE MON	ACK		#:					
LEAD ANALYST:									
ASSESSMENT:									
CRITICAL		UNDANCY SCREE	NS	CIL ITEM					
FLIGH HDW/FU		<b>.</b>	<b>C</b> ,	TIDM					
NASA [ 3 /1R IOA [ 2 /1R	] [ ] ]	[ ] [P]	[ ] [ P ]	[ x ] *					
COMPARE [ N /	] [ N ]	[ N ]	[и]	[ N ]					
RECOMMENDATIONS:	(If diffe	rent from NAS	A)						
[ /	] [ ]	[ ]	[ ] <b>(</b> A)	[ ] DD/DELETE)					
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]									
REMARKS: LOSS OF OUTPUT F ADJUSTMENTS DIFF LOSS OF TV COVER GROUND MONITORS CRITICALITY TO 3 MAINTAINED.	ICULT IF NOT AGE AND POTE COULD POTENT	WOULD MAKE TV IMPOSSIBLE R NTIAL LOSS OF IALLY PROVIDE	C POINTING ESULTING IN VEHICLE AN ASSISTANCE	AND PICTURE POSSIBLE D CREW. TO DOWNGRAD					

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-		8M					A DATA SELINE NEW	[	x	]	
SUBSYSTEM: MDAC ID: ITEM:	COMM AND 8068 CONSOLE			(CI	₹ <b>T</b> )							
LEAD ANALYST:	T: W.C. LONG											
ASSESSMENT:												
CRITICAL: FLIGHT HDW/FUI	ľ	RE A	DUNDANG	CY B	SCREE	NS	S C			IL PEM	1	
•							_				_	_
NASA [ 3 /3 IOA [ 2 /1R	] [	P	] [	P	]	]	P ]		[	x	]	*
COMPARE [ N /N	] [	N	] [	N	]	[	N <sub>j</sub>		[	N	]	
RECOMMENDATIONS:	(If d	iff	erent 1	fro	om NAS	A)	)					
[ /	) [		] [		]	[	]		-	/DE	] ELF	ETE)
* CIL RETENTION I	RATIONAL	E:	(If app	oli	icable	-		QUATE QUATE	[	x	]	
LOSS OF CRT RESU										\SE	2	
CONDITION. NON	CRITICAL	FU:	NCTIONS	3 V	VERE N	O'	r ana	ALYSED	•			

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-80	68N		BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	COMM AND 8068 CONSOLE M				
LEAD ANALYST:	W.C. LONG	}			
ASSESSMENT:					
CRITICAL FLIGH HDW/FU	T	EDUNDANCY		c	CIL ITEM
NASA [ 3 /3 IOA [ 2 /1R	] [P	) [ I	) [	p ]	[ x ]
COMPARE [ N /N	] [ N	, i	] [	N ]	[ N ]
RECOMMENDATIONS:	(If dif	ferent fr	om NASA)		
[ /	] [	] [	ן נ	] (AI	[ ] OD/DELETE)
* CIL RETENTION	RATIONALE:	(If app)		ADEQUATE NADEQUATE	
REMARKS: LOSS OF CRT RESU	LTS IN LOS	S OF CM A	ND PRESI	ENTS WORST	CASE
CONDITION. NON	CRITICAL F	UNCTIONS	WERE NOT	. ANALYSED.	•

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8	DMTRK-8069 BASELINE							
MDAC ID:	COMM AND 8069 TV PWR C	O TRACK CNTL UNIT S							
LEAD ANALYST:									
ASSESSMENT:									
CRITICAL FLIGH		REDUNDANCY	SCREENS		CIL ITEM				
HDW/FU		A B	С						
NASA [ 3 /2R IOA [ 2 /1R	] [	P ] [ P P	] [ P	]	[				
COMPARE [ N /N	] [	] [	] [	]	[и]				
RECOMMENDATIONS:	(If di	ifferent fr	om NASA)						
[ 2 /1R	] [	P ] [ P	] [ P	] (AD	[ A ] DD/DELETE)				
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ ]  INADEQUATE [ X ]									
REMARKS:  FAILURE TO SWITCH COULD RESULT IN LOSS OF CCTV FUNCTION AND LOSS OF MISSION. A SECOND GCIL REDUNDANCY FAILURE WOULD RESULT IN LOSS OF CCTV. LOSS OF CCTV AND ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF VEHICLE AND CREW.									

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8070 05-6PK-20402-1	8/05/88 NASA DATA: COMTRK-8070 BASELINE 05-6PK-20402-1 NEW						
	8070	OMM AND TRACK 070 V PWR CNTL UNIT SWITCH						
LEAD ANALYST:	W.C. LONG	.c. Long						
ASSESSMENT:	ASSESSMENT:							
	ITY REDUNDAN	CY SCREENS	CIL					
FLIGH HDW/FUI	NC A	B C 1 - 7,112	ITEM					
NASA [ 3 /2R IOA [ 2 /1R	] [ P ] [ ] [ P ]	P ] [ P ] P ] [ P ]	[ x ] *					
COMPARE [ N /N	] [ ] [	] [ ]	[ N ]					
RECOMMENDATIONS:	(If different	from NASA)						
[ 2 /1R	] [P] [	P ] [ P ] (A	[ A ] DD/DELETE)					
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ ]  INADEQUATE [ X ]								
REMARKS: ELECTRICAL SHORT/OPEN COULD RESULT IN LOSS OF CCTV FUNCTION. A SECOND GCIL REDUNDANCY FAILURE WOULD CAUSE LOSS OF CCTV. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD RESULT IN LOSS OF VEHICLE AND CREW.								

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8071 05-6PK-20402-1	NASA DATA: BASELINE NEW	[ X ]				
	COMM AND TRACK 8071 TV PWR CNTL SWITCH	071					
LEAD ANALYST:	W.C. LONG	I.C. LONG					
ASSESSMENT:							
CRITICAI FLIGH		C SCREENS	CIL ITEM				
— ·-		з с					
NASA [ 3 /2F IOA [ 3 /3	R] [P] [I	P] [P]	[ ] <b>*</b>				
COMPARE [ /N	] [][1	и] [и]	[ ]				
RECOMMENDATIONS:	(If different fi	rom NASA)					
[ 3 /3	] . [ ] [	] [ ] (AE	[ ] DD/DELETE)				
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ ]  INADEQUATE [ X ]							
	- · · · ·						

ASSESSME ASSESSME NASA FME	NT I		3/05/8 COMTRI 05-6PI	<b>ζ−8</b> (					Ņ		DATA: LINE NEW	[ X	]	
SUBSYSTE MDAC ID:			COMM 2 8072 TV PWI					* _	on Ale			thi.		
LEAD ANA	LYST	:	W.C. 1	W.C. LONG										
ASSESSME	ENT:													
			ITY	1	RED	UNDAN	CY	SCI	REENS			CIL		
		LIGHT W/FUN	_	1	A		В		c			ITE	M	
NASA IOA	[ 3	/2R /3	]	[ ]	P ]	[ [	P	]	[ F	]		[	]	*
COMPARE	[	/N	]	[	]	[	N	]	[ N	]		[	]	
RECOMMEN	DATI	ons:	(If	di	ffe	rent :	fro	om I	NASA)					
•	[ - 3	/3	]	(	]	ĵ		]	[	]	(AI	[ DD/D	] ELE	ΓE)
* CIL RE		ION F	RATION	ALE:	: (	If app	<b>91</b> :	Lcal	A	DEQU DEQU		[ [ x	]	
REMARKS: AN OPEN THE CREW	SW W	OULD	REQUIE	RE I	CHA'	r ALL	C	CTV	FUNCT	ONS	BE S	SELE	CTEI	о ву

ASSESSME ASSESSME NASA FME	NT	ID:	3/05/8		73			]	NASA BASE	DATA: LINE NEW	[	]	
SUBSYSTEMDAC ID:	M:		COMM 7 8073 TV SY										
LEAD ANA	LYS'	T:	W.C.	LONG									
ASSESSME	NT:												
CRITICALITY REDUNDANCY SCREE FLIGHT				REENS			CII						
		DW/FU		A		В		(	C		#11	2141	
NASA IOA	[	3 /3	]	[	]	[	]	]	]		[	]	*
COMPARE	[	n /n	1	[	]	[	]	[	]	-	[	]	
RECOMMEN	DAT	ions:	(If	dif	fere	nt fr	om N	NASA)					
	[	/	]	[	]	[	]	(	. ]	(AI	[ DD/I	ELE'	ΓE)
* CIL RE	TEN	TION	RATION	ALE:	(If	appl	icak		ADEQU ADEQU		[	]	
REMARKS: NO COUNT	ERP	ART N	ASA CC	rv F	MEA (	CREDI	BLE					CRIT	ICAL

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	-, · -,	NASA DATA: BASELINE [ ] NEW [ ]
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8074 TV SYNC SWITCH	
LEAD ANALYST:	W.C. LONG	
ASSESSMENT:		
CRITICAL FLIGH	ITY REDUNDANCY SCREENS	CIL ITEM
HDW/FU		C
NASA [ / IOA [ 2 /1R	] [ ] [ ] [ ] [ P ] [ P ]	p ] [ ] *
COMPARE [ N /N	] [N] [N] [	и] [и]
RECOMMENDATIONS:	(If different from NASA)	
[ 2 /1R	] [P] [P] [	P ] [ A ] (ADD/DELETE)
	RATIONALE: (If applicable) IN	ADEQUATE [ ] ADEQUATE [ ]
FAILURE HWICH CO	ASA CCTV FMEA. OPEN/SHORT ULD RESULT IN LOSS OF CCTV O PERFORM CCTV FUNCTION COU	PRESENTS A CREDIBLE AND MISSION. LOSS OF

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-	8075				ASA DATA BASELINE NEW	[	]		
SUBSYSTEM: MDAC ID: ITEM:	8075	COMM AND TRACK 075 V DOWNLINK SWITCH								
LEAD ANALYST:	W.C. LO	NG								
ASSESSMENT:										
CRITICALITY REDUNDANCY				SCREENS				CIL ITEM		
FLIGH HDW/FU		A	В		C	,	111	4P1		
NASA [ / IOA [ 3 /3	] [	]	[ [	]	[ [	]	]	] * ]		
COMPARE [ N /N	] [	]	Ţ	]	ι.	]	[	]		
RECOMMENDATIONS:	(If d	ifferen	t fr	om NAS	SA)					
[ /	] [	]	[	1.	[	] (2	[ \DD/I	] DELETE)		
* CIL RETENTION	RATIONAL	E: (If	appl:	icable	A	DEQUATE DEQUATE	-	]		
REMARKS: NO COUNTERPART N										

ASSESSMENT DATE	E: 3/05/88				N	ASA DATA	:	
ASSESSMENT ID: NASA FMEA #:	COMTRK-					BASELINE NEW	[	]
SUBSYSTEM: MDAC ID: ITEM:	COMM AN 8076 TV DOWN							
LEAD ANALYST:	W.C. LO	NG						
ASSESSMENT:								· - · ·
CRITIC:		REDUNI	DANCY	SCF	REENS		CI	IL TEM
HDW/I		A	B	3	c			LEM
NASA [ / IOA [ 3 /	] [	]	[	]	[ [	]	[	] * ]
COMPARE [ N /	4 ] [	]	[	]	[	]	[	1
RECOMMENDATIONS	S: (If d	iffere	nt fr	om N	(ASA)			,
[ /	] [	1 .	[	]	[	] (A		] 'DELETE)
* CIL RETENTION	N RATIONAL	E: (If	appl	icab	A	DEQUATE		]
REMARKS: NO COUNTERPART	NASA CCTV	FMEA (	CREDI	BLE	FAÏLU	RE BUT N	ОТ	CRITICAL.

	3/05/88 COMTRK-8077 05-6PK-2050		NASA DATA BASELINE NEW	[ X ]		
	COMM AND TRA 8077 TV CAMERA PO	ACK OWER SWITCH	(TVC A)			
LEAD ANALYST:	W.C. LONG					
ASSESSMENT:						
CRITICALITY REDUNDANCY SCREEN			ens	CIL ITEM		
HDW/FU	_	В	С	11211		
NASA [ 3 /3 IOA [ 2 /1R	] [ ] ]	[ ] [P]	[ ] [ P ]	[ x ] *		
COMPARE [ N /N	] [ N ]	[ N ]	[ N ]	[ N ]		
RECOMMENDATIONS:	(If differ	rent from NAS	5 <b>A)</b>			
[ 2 /1R	] [P]	[ P ]	[ P ]	[ A ] DD/DELETE)		
* CIL RETENTION	RATIONALE: ()	[f applicable	ADEQUATE	[ x ]		
REMARKS:			THADEQUATE	[ A ]		
FAILURE TO SWITCH COULD RESULT IN LOSS OF TVC AND MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD RESULT IN LOSS						
OF VEHICLE AND C						

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8078 05-6PK-20501-1	NASA DATA: BASELINE [ X ] NEW [ ]				
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8078 TV CAMERA POWER SWITCH (TV	/C A)				
LEAD ANALYST:	W.C. LONG					
ASSESSMENT:		, and the second of the second				
CRITICAL FLIGH HDW/FU		CIL ITEM C				
NASA [ 3 /3 IOA [ 2 /1R	] [ ] [ ] [ ] [	] [ X ] * P ] [ ]				
COMPARE [ N /N	] [и] [и] [	и ] [и]				
RECOMMENDATIONS:	(If different from NASA)	)				
[ 2 /1R	. ] [P] [P] [	P ] [ A ] (ADD/DELETE)				
* CIL RETENTION	RATIONALE: (If applicable)	ADEQUATE [ ] NADEQUATE [ X ]				
REMARKS:  OPEN/SHORT COULD RESULT IN LOSS OF TVC AND MISSION. SECONDS GCIL  CMD FAILURE WOULD RESULT IN LOSS OF TVC. LOSS OF ALL CAPABILITY  TO PERFORM CCTV FUNCTION COULD RESULT IN LOSS OF VEHICLE AND  CREW.						

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-	8079		NASA DATA BASELINE NEW	
	COMM AN 8079 TV CAME		SWITCH (1	TVC B)	
LEAD ANALYST:	W.C. LO	NG			
ASSESSMENT:					
CRITICAL FLIGH	REDUNDAN	CY SCREEN	is	CIL	
HDW/FU		A	В	С	ITEM
NASA [ 3 /3 IOA [ 2 /1R	] [	P ]	P ]	] P ]	[ x ] *
COMPARE [ N /N	] [	N ]	[и]	N J	[ N ]
RECOMMENDATIONS:	(If d	ifferent	from NASA	٧)	
[ 2 /1R	] [	P ] [	[ P ]		[ A ] DD/DELETE)
* CIL RETENTION	RATIONAL	E: (If ar	-	ADEQUATE	[ x ]
REMARKS: FAILURE TO SWITCH OF ALL CAPABILIT OF VEHICLE AND CO	Y TO PER				

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8080 05-6PK-20501-1		E [X]
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8080 TV CAMERA POWER S	WITCH (TVC B)	
LEAD ANALYST:	W.C. LONG		
ASSESSMENT:			
CRITICAL: FLIGHT	<del></del> -	Y SCREENS	CIL ITEM
HDW/FUI		в с	
NASA [ 3 /3 IOA [ 2 /1R	] [ ] [ ] [ P ] [	P ] [ ]	[ X ] *
COMPARE [ N /N	] [N][	и] [и]	[ N ]
RECOMMENDATIONS:	(If different f	rom NASA)	
[ 2 /1R	] [P] [	P] [P]	[ A ] (ADD/DELETE)
* CIL RETENTION	RATIONALE: (If app	olicable) ADEQUATI INADEQUATI	
CMD FATLURE WOUL	RESULT IN LOSS OF D RESULT IN LOSS OF FUNCTION COULD RES	OF TVC. LOSS OF A	ALL CAPABILITY

	3/05/88 COMTRK-8081 05-6PK-20501		NASA DATA BASELINE NEW	: [ X ]			
MDAC ID:	COMM AND TRA 8081 TV CAMERA PO		(TVC C)				
LEAD ANALYST:	W.C. LONG	W.C. LONG					
ASSESSMENT:							
CRITICAL FLIGH		EENS	CIL ITEM				
HDW/FU		В	С	TIEM			
NASA [ 3 /3 IOA [ 2 /1R	] [ p ]	[ ] [P]	[ ] [ P ]	[ ] * [ x ]			
COMPARE [ N /N	] [ N ]	[ N ]	[ N ]	[ N ]			
RECOMMENDATIONS:	(If differ	ent from NA	SA)				
[ 2 /1R	] [ P ]	[ P ]	[ P ]	[ A ] .DD/DELETE)			
* CIL RETENTION DEMARKS.	RATIONALE: (I	f applicabl	e) ADEQUATE INADEQUATE	[ x ]			
FAILURE TO SWITCH	REMARKS: FAILURE TO SWITCH COULD RESULT IN LOSS OF TVC AND MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD RESULT IN LOSS						

ASSESSMENT DATE ASSESSMENT ID: NASA FMEA #:	COMTRK-8	8082 80501-1		NASA DATA: BASELINE NEW	[ X ]		
SUBSYSTEM: MDAC ID: ITEM:	8082	COMM AND TRACK 3082 TV CAMERA POWER SWITCH (TVC C)					
LEAD ANALYST:	W.C. LONG						
ASSESSMENT:							
CRITICA FLIG		REDUNDA	NCY SCREEN	S	CIL ITEM		
HDW/F		A	В	<b>C</b>			
NASA [ 3 /3 IOA [ 2 /1]	] [	P ]	[ P ] [	P ]	[ x ] *		
COMPARE [ N /N	] [	N ]	[ N ] [	n j	[и]		
RECOMMENDATIONS	: (If di	fferent	from NASA	<b>()</b>			
[ 2 /1	R ] [	P ]	[P] [	P ] (AI	[ A ] DD/DELETE)		
* CIL RETENTION	* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ ]  INADEQUATE [ X ]						
REMARKS: OPEN/SHORT COULD RESULT IN LOSS OF TVC AND MISSION SECOND GCIL CMD FAILURE WOULD RESULT IN LOSS OF TVC. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD RESULT IN LOSS OF VEHICLE AND CREW.							

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-80	)83 )501–1	NASA DATA: BASELINE [ X ] 1 NEW [ ]					
SUBSYSTEM: MDAC ID: ITEM:	COMM AND 8083 TV CAMERA		WITCH (TV	7C D)				
LEAD ANALYST:	W.C. LONG	;						
ASSESSMENT:								
CRITICAL FLIGH HDW/FU			Y SCREENS	s c	CIL ITEM			
HDW/FU	NC A	•	D	C				
NASA [ 3 /3 IOA [ 2 /1R	] [ ] [ P	] [	P ] [	P ]	[ ] * [ X ]			
COMPARE [ N /N	] [N	] [	и][	и ј	[ N ]			
RECOMMENDATIONS:	(If dif	ferent f	rom NASA)					
[ 2 /1R	] [ P	) ] [	P ] [	P ] (AI	[ A ] DD/DELETE)			
* CIL RETENTION	RATIONALE:	(If app	·	ADEQUATE IADEQUATE	[ ] [ x ]			
REMARKS:								
FAILURE TO SWITC OF ALL CAPABILIT OF VEHICLE AND C	Y TO PERFO							

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-80 05-6PK-20	084 0501-1	NASA DATA: BASELINE [ NEW [	<b>X</b> ]
MDAC ID:	8084	TRACK A POWER SWITCH (TV		
LEAD ANALYST:	W.C. LONG	<b>G</b>		
ASSESSMENT:				
CRITICAL: FLIGHT		REDUNDANCY SCREENS		IL TEM
	NC A	А В	c	I EM
NASA [ 3 /3 IOA [ 2 /1R	] [1	P ] [ P ] [	P ] [	x ] *
COMPARE [ N /N	] [ 1	и] [и] [	и ] [	<b>N</b> ]
RECOMMENDATIONS:	(If di	fferent from NASA)		
[ 2 /1R	] [,1	P] [P] [	P ] [ (ADD)	A ] /DELETE)
* CIL RETENTION I	RATIONALE		ADEQUATE [ ADEQUATE [	
CMD FAILURE WOULI	D RESULT I	N LOSS OF TVC AND IN LOSS OF TVC. L COULD RESULT IN LO	OSS OF ALL	CAPABILITY

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:				NASA DATA BASELINE NEW				
MDAC ID:	COMM AND 8085 TV CAME		R SWITCH (	RMS TVCS)				
LEAD ANALYST: W.C. LONG								
ASSESSMENT:								
CRITICAL FLIGH		REDUND	ANCY SCREE	ens	CIL ITEM			
HDW/FU	NC	A	В	С				
NASA [ / IOA [ 3 /2R	] [	p ]	[ ] [ P ]	[ ] [P]	[ ]	*		
COMPARE [ N /N	] [	и ]	[ N ]	[и]	[ ]			
RECOMMENDATIONS:	(If d	ifferen	t from NAS	SA)				
[ 3 /2R	] [	P ]	[ P ]	[ P j	[ ] DD/DEI	LETE)		
* CIL RETENTION	RATIONAL	E: (If	applicable	e) ADEQUATE INADEQUATE	[ ]			
REMARKS: NO COUNTERPART N FAILURE TO SWITC TVC DEPENDING ON	H WOULD	CAUSE L	OSS OF EIT	FAILURE BUT	NOT A	CIL.		

ASSESSM	SSMENT DATE: 3/05/88 SSMENT ID: COMTRK-8086 FMEA #: 05-6PK-20409-1						NASA DATA: BASELINE [ X ] NEW [ ]						]										
SUBSYSTI MDAC ID ITEM:					80	MM 2 86 CAI	ANI	ני ע	rac	CK	×1.4	أجوي	4"					CS)					
LEAD AN	ALY	ST	:		W.	c. :	LOI	NG															
ASSESSMI	ENT:	:																					-
	CR					•		RI	EDUI	NDA	NC	Y	SCF	REEN	IS	;					IL		
	1	_	LIG W/F					A				В				С		-		1	TE	<b>71</b>	
NASA IOA	[	2	/2	R	]		[	P	]		[	P	]	[	• •	P	]			[	x	]	*
COMPARE	[	N	/N	Ī	]		[	N	]		[	N	]	[	•	N	]			[	N	]	
RECOMME	NDA:	ΓΙ	ONS	:		(If	d:	if1	fere	ent	1	rc	m N	IASA	۲)			÷	÷				
	Į		/		]		(		]		[		] `	(	•		3		(A	] DD	/D!	] ELF	ETE)
* CIL R		NT:	ION	R	ΑT	'ION	ALI	Ξ:	(I:	f a	pp	oli	.cak				EQ EQ				x		
REMARKS ELECTRI		Ó:	PÉN	i/s	НО	RT	cot	JLI	RI	ESU:	LT	. 1	N F	REDU	JC	ΕI	) M	ISS	IO	N			
EFFECTI	VENI	ES	SE	ÜE	T	O L	oss	3 (	FÍ	RMS	1	.VC	s V	VHIC	H		OO I	ron	M	ÖN	ITC	OR	
CRITICA																							
VIEWING TVC'S C			AN	Ü	CO	AS I	r'Ol	<b>.</b> (	:REV	v V	TS	O P	ا بلا	NSF	Ľ	C1	TO	N.	'ل	US	S (	JF.	KMS
RESULT :			ss	OF	M	ISS	101	Ν.											•				

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-808 05-6PK-204	86A 409-2	NASA DATA BASELINE NEW	
SUBSYSTEM:	COMM AND 3		(RMS TVCS)	
LEAD ANALYST:	W.C. LONG			
ASSESSMENT:				
FLIGHT	r	EDUNDANCY SCRE		CIL ITEM
HDW/FU	NC A	В	С	
NASA [ 2 /2 IOA [ 3 /2R	] [ ] [ P	] [ ] ]	[ ] [ P ]	[
COMPARE [ N /N	] [ N	] [ N ]	[ N ]	[и]
RECOMMENDATIONS:	(If dif:	ferent from NA	SA)	
[ /	] [	1 [ ]	[ ](2	[ ] ADD/DELETE)
* CIL RETENTION 1	RATIONALE:	(If applicabl	.e) ADEQUATE INADEQUATE	[ ] [ X ]
REMARKS: ELECTRICAL OPEN/S EFFECTIVENESS DUST CRITICAL FUNCTION VIEWING, EVA AND TVC'S COULD RESULT IN LOSS OF	E TO LOSS ( NS. UNLIK) COAS FOR (	OF RMS TVCs WH E REDUNDANCY F	EDUCED MISSIC HICH DO NOT M EXISTS VIA CE	ON MONITOR REW WINDOW

ASSESSMEN ASSESSMEN NASA FME	I TV		COMTR	3/05/88 NASA DATA COMTRK-8087 BASELINE 05-6PK-20501-1 NEW						E [ X	]
SUBSYSTEM MDAC ID: ITEM:	M:		COMM 2 8087 TV PW			(FLT	DECK	TV	C)		
LEAD ANA	LYST	:	W.C.	LONG							
ASSESSME	NT:										
CRITICALITY REDUNDANCY FLIGHT								ENS	CIL ITE	CIL ITEM	
	HD	W/FUI	1C	A		В		(		*****	
NASA IOA	[ 3 [ 3	/3 /3	]	]	]	[	]	[	]	[	] * ]
COMPARE	[	/	]	[	]		3	(	]	[	]
RECOMMEN	DATI	ons:	(If	diff	feren	t fro	om NAS	SA)			
	[	j	1 .	[ .	]	[	1.	[	]	[ ADD/D	] ELETE)
* CIL RES	rent	ION 1	RATION	ALE:	(If	appli	cable	7	ADEQUATE ADEQUATE		]
REMARKS:	T 10 T 10	C TN	ACDEE	westm							

ASSESSMENT DATE: 3/05/88 ASSESSMENT ID: COMTRK-8088 NASA FMEA #: 05-6PK-20501-1								NASA DATA: BASELINE [ X ] NEW [ ]							
SUBSYSTE MDAC ID:			8	880				DECK	TV	C)					
LEAD ANA	LYS	T:	W	.c. L	ONG										
ASSESSME	ENT:														
			CALIT	Y	RI	DUND	ANCY	SCREI	ens			CII			
	H	DW/	FUNC		A		В		(	3					
NASA IOA	[	3 / 3 /	/3 ] /3 ]		[	]	[	]	[	]		[	]	*	
COMPARE	[	/	′ ]		[	]	[	]	[	]		[	]		
RECOMMEN	DAT:	ION	is:	(If	diff	erent	t fro	om NAS	SA)						
	[,	/	' ]		[	]	[	]	[	]	(AI	[ D/D		ETE)	
* CIL RE	TEN'	TIC	N RA	TIONA	LE:	(If a	appli	icable	A	ADEQUA ADEQUA	ATE ATE	[ X	: ] ]		
REMARKS: CRITICAL	ITI.	ES	IN A	GREEM	ENT.							-	-		

ASSESSMEN ASSESSMEN NASA FMEA	T II		3/05/8 COMTRE 05-6PE	<b>5-808</b>				=	NASA DA BASELI N		-	]	
SUBSYSTEM MDAC ID: ITEM:	[ <b>:</b>		COMM A 8089 TV PWF				DECK	TV	/C)				
LEAD ANAI	YST	:	W.C. I	LONG									
ASSESSMEN	T:												
c		CAL		RI	EDUND	ANCY	SCREE	ens	3		CIL		
		LIGH' V/FU		A		В			C	- 1		••	
NASA IOA	[ 3	/3 /3	]	[	]	[	]	[	]		[	]	k
COMPARE	[	/	]	[	]	[	]	[	]		[	J	
RECOMMENI	OATI	ons:	(If	dif	feren	t fr	om NAS	SA)					
ı	[-	<u>/</u>	]	[	]	[	]	[	]	(AI	[ DD/D	] ELE	TE)
* CIL RET	CENT:	ION	RATION	ALE:	(If	appl:	icable		ADEQUAT		[ X	]	
REMARKS: CRITICAL	ITY	IN A	GREEME!	NT.						4			

ASSESSME	ENT DATE: ENT ID: EA #:	COMTR	K-80	90 501-1	NASA DATA: BASELINE [ ] L-1 NEW [ X ]							
SUBSYSTE MDAC ID:	EM:	COMM 8090 TV PW				DECK	TVC	)				
LEAD ANA	LYST:	W.C.	LONG									
ASSESSME	ENT:											
	CRITICAL		R	EDUND	ANCY	SCRE	ENS		CII			
	FLIGH HDW/FU			A B					TTE	ITEM		
NASA IOA	[ / [ 3 /3	]	[	]	[				]	] *		
COMPARE	[ N /N	]	[	]	[	]	[	]		]		
RECOMMEN	DATIONS:	(If	dif	feren	t fro	om NA	SA)					
	[ ./.	]	[	]	[	]	[	] (	[ ADD/D	] ELETE		
REMARKS:				(If	appli	icable	A	DEQUATE DEQUATE		( ] ]		
CKITICAL	ITY IN A	GKEEME.	NI.									

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8091 6.0.2		BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRA 8091 RMS TV CAMER	ACK RA SELECT SW	(STBD)	tr.
LEAD ANALYST:	W.C. LONG			
ASSESSMENT:				
CRITICAL: FLIGH		UNDANCY SCREE	ns	CIL ITEM
HDW/FU		В	C	
NASA [ 2 /1R IOA [ 3 /3		[ P ] [ ]	[ P ] [ ]	[ X ] *
COMPARE [ N /N	] [ N ]	[и]	[ N ]	[ N ]
RECOMMENDATIONS:	(If differ	rent from NAS	A)	
[ /	1 [ ]	[ ]	[ ] (A)	[ ] DD/DELETE)
* CIL RETENTION	RATIONALE: (		) ADEQUATE INADEQUATE	[ X ]
REMARKS: FAILURE TO SWITC PROVIDE PARTIAL STOW WAS NOT ANA	MISSION SUPPO	ELBOW OR WRIS ORT. MECHANI	T TVC OPEATI CAL INTERFEI	ION TO RENCE TO RMS

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	•	NASA DATA: BASELINE [ ] NEW [ X ]							
	COMM AND TRACK 8091 RMS TV CAMERA SELECT SW	(STBD)							
LEAD ANALYST:	LEAD ANALYST: W.C. LONG								
ASSESSMENT:									
CRITICAL		ENS CIL ITEM							
FLIGH HDW/FU		C							
NASA [ 2 /1R IOA [ 3 /3	[P] [P] [] []	[P] [X]* [] []							
COMPARE [ N /N	] [N] [N]	[ и ]							
RECOMMENDATIONS:	(If different from NA	SA)							
. [ /	] [ ] [ ]	[ ] [ ] (ADD/DELETE)							
* CIL RETENTION	RATIONALE: (If applicabl								
		ADEQUATE [ X ] INADEQUATE [ ]							
REMARKS: FAILURE TO SWITCH MAINTAINS ELBOW OR WRIST TVC OPEATION TO PROVIDE PARTIAL MISSION SUPPORT. MECHANICAL INTERFERENCE TO RMS STOW WAS NOT ANALYSED.									

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	4 [ X ]				
SUBSYSTEM: MDAC ID: ITEM:	COMM AND S 8091 RMS TV CAL			(STBD)	a marina di sensiti di
LEAD ANALYST:	W.C. LONG				
ASSESSMENT:					
CRITICAL FLIGH		EDUNDANG	CY SCREE	ens	CIL ITEM
HDW/FU			В	C	IIEM
NASA [ 2 /2 IOA [ 3 /3	] [	] [	]	[ ]	[ X ] *
COMPARE [ N /N	] [	] [	]	[ ]	[ N ]
RECOMMENDATIONS:	(If dif	ferent :	from NAS	;A)	
[ /	] [	] [	3	[ ] (A)	[ ] .DD/DELETE)
* CIL RETENTION	RATIONALE:	(If app	olicable	ADEQUATE	
REMARKS: FAILURE TO SWITCH PROVIDE PARTIAL	MISSION SU				

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:		091C				ASA DATA BASELINE NEW	
	8091	COMM AND TRACK 8091 RMS TV CAMERA SELECT SW (STBD)					
LEAD ANALYST:	W.C. LONG	3					
ASSESSMENT:							
CRITICAL FLIGH		REDUNDA	MCY	SCREE	ns		CIL ITEM
HDW/FU		A	В		C		*****
NASA [ 2 /2 IOA [ 3 /3	] [	]	[	]	[ [	]	[ X ] * [ ]
COMPARE [ N /N	] [	]	[	]	[	]	[ N ]
RECOMMENDATIONS:	(If di	fferent	fro	m NAS	SA)		
[ /	] [	1	[	]		] (A	[ ] .DD/DELETE)
* CIL RETENTION	RATIONALE	: (If a	appli	.cable	A	DEQUATE DEQUATE	
REMARKS: FAILURE TO SWITC PROVIDE PARTIAL STOW WAS NOT ANA	MISSION ST						TION TO RENCE TO RMS

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8092		NASA DATA BASELINE NEW	-
	COMM AND TRAC 8092 RMS TV CAMERA			· <del>· · · · · · · · · · · · · · · · · · </del>
LEAD ANALYST:	W.C. LONG			
ASSESSMENT:				engel en
CRITICAL: FLIGHT		NDANCY SCRE	ENS	CIL ITEM
HDW/FU		В	С	LIEM
NASA [ 2 /1R IOA [ 3 /2R	] [ P ] ] [ P ]	[ P ] [ P ]	[ P ] [ P ]	[ X ] *
COMPARE [ N /N	] [ ]	[ ]	[ ]	[ N ]
RECOMMENDATIONS:	(If differe	ent from NA	SA)	
[ /	] [ ]	[ ]	[ ] (A)	[ ] DD/DELETE)
* CIL RETENTION I	RATIONALE: (I	f applicabl	e) ADEQUATE INADEQUATE	[ X ] [ ]
REMARKS: ELECTRICAL OPEN/S IN LOSS OF MISSIONOT ANALYSED.			RMS TVC OUT	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8092A	NASA DATA: BASELINE NEW			
	COMM AND TRACK 8092 RMS TV CAMERA SELECT	r sw (stbd)			
LEAD ANALYST:	W.C. LONG				
ASSESSMENT:					
	ITY REDUNDANCY S	SCREENS	CIL ITEM		
FLIGH HDW/FU		С	IIEM		
NASA [ 2 /1R IOA [ 3 /2R	] [P] [P]	] [P] ] [P]	[ X ] * [ ]		
COMPARE [ N /N	1 [ ] [ ]	] [ ]	[ N ]		
RECOMMENDATIONS:	(If different from	m NASA)			
. [ /	] [][		[ ] DD/DELETE)		
* CIL RETENTION	RATIONALE: (If applic		r <b>v</b> 1		
		ADEQUATE INADEQUATE			
REMARKS: ELECTRICAL OPEN/SHORT RESULTS IN LOSS OF RMS TVC OUTPUT RESULTING IN LOSS OF MISSION. MECHANICAL INTERFERENCE DURING RMS STOW WAS NOT ANALYSED.					

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8092B		ASA DATA: BASELINE ( NEW (	
	COMM AND TRACK 8092 RMS TV CAMERA S		BD)	
LEAD ANALYST:	W.C. LONG			
ASSESSMENT:				
CRITICALI FLIGHT HDW/FUN		NCY SCREENS B C	CI II	L 'EM
NASA [ 2 /2 IOA [ 3 /2R	] [ ] ] [ P ]	[ ] [ [ P ] [ P	] [	X ] * ] "
COMPARE [ N /N	] [ N ]	[ N ] [ N	] [	N ]
RECOMMENDATIONS:	(If different	from NASA)		
[, /	] [ ]	[ ] [	] [ (ADD/	] 'DELETE)
* CIL RETENTION F	RATIONALE: (If a	Al	DEQUATE [	
REMARKS: ELECTRICAL OPEN/S IN LOSS OF MISSIC NOT ANALYSED.				

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8092C	NASA DATA: BASELINE [ ] NEW [ X ]				
MDAC ID:	COMM AND TRACK 8092 RMS TV CAMERA SELECT SW	(STBD)				
LEAD ANALYST:	W.C. LONG					
ASSESSMENT:						
CRITICAL FLIGH	T	ENS CIL ITEM				
HDW/FU	NC A B					
NASA [ 3 /3 IOA [ 3 /2R	[ ] [ ] [ ] [ P ]	[ ] [ ] [ P ] [ ]	*			
COMPARE [ /N	] [N] [N]	[ N ] [ ]				
RECOMMENDATIONS: (If different from NASA)						
[ /	] [ ] [ ]	[ ] [ ] (ADD/DEL	ETE)			
* CIL RETENTION	RATIONALE: (If applicable	e) ADEQUATE [ X ] INADEQUATE [ ]				

# REMARKS:

ELECTRICAL OPEN/SHORT RESULTS IN LOSS OF RMS TVC OUTPUT RESULTING IN LOSS OF MISSION. MECHANICAL INTERFERENCE DURING RMS STOW WAS NOT ANALYSED. ONLY WORST CASE CONDITION WAS ANALYSED.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8093	NASA DATA: BASELINE [ ] NEW [ X ]
	COMM AND TRACK 8093 RMS TV CAMERA SELECT SV	
LEAD ANALYST:	W.C. LONG	
ASSESSMENT:		
CRITICALI FLIGHT		EENS CIL ITEM
HDW/FU		C
NASA [ 2 /1R IOA [ 3 /3	] [P] [P]	[ P ] [ X ] * [ ] [ ]
COMPARE [ N /N	ј [иј [иј	[ N ] [ N ]
RECOMMENDATIONS:	(If different from NA	ASA)
[ /	] [ ] [ ]	[ ] [ ] (ADD/DELETE)
* CIL RETENTION F	RATIONALE: (If applicabl	Le) ADEQUATE [ X ] INADEQUATE [ ]

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-8093A		NASA DATA BASELINE NEW	
	COMM AND TRACT 8093 RMS TV CAMERA		(PORT)	
LEAD ANALYST:	W.C. LONG			
ASSESSMENT:				
CRITICALI FLIGHT		DANCY SCREE	ens	CIL ITEM
HDW/FUN		В	C	III
NASA [ 2 /1R IOA [ 3 /3	] [ P ] ] [ ]	[ P ] [ ]	[ P ] [ ]	[ X ] *
COMPARE [ N /N	] [N]	[и]	[ N ]	[ N ]
RECOMMENDATIONS:	(If differe	nt from NAS	5 <b>A</b> )	
[ /	] [ ]	[ ]	(A)	[ ] DD/DELETE)
* CIL RETENTION F REMARKS: FAILURE TO SWITCH PROVIDE PARTIAL M STOW WAS NOT ANAI	H MAINTAINS EL MISSION SUPPOR'	BOW OR WRIS	ADEQUATE INADEQUATE ST TVC OPERA	[ ] TION TO
0100 000 000				

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-809 6.0.3	93B		NASA DATA BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	COMM AND 1 8093 RMS TV CAM			(PORT)	
LEAD ANALYST:	W.C. LONG				
ASSESSMENT:					
CRITICAL		EDUNDANCY	SCREE	NS	CIL ITEM
FLIGH HDW/FUI		F	3	<b>C</b> 444	IIEM
NASA [ 2 /2 IOA [ 3 /3	] [	] [	]	[ ]	[ X ] * [ ]
COMPARE [ N /N	J [	] [	]	[ ]	[ N ]
RECOMMENDATIONS:	(If dif	ferent fr	om NAS	A)	
1	] [	] [	]	[ ] (A	[ ] ADD/DELETE)
* CIL RETENTION 1	RATIONALE:	(If appl		) ADEQUATE INADEQUATE	[ X ] [ ]
REMARKS: FAILURE TO SWITCH PROVIDE PARTIAL I STOW WAS NOT ANA	MISSION SUI				TION TO RENCE TO RMS

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	•	93C			ASA DATA BASELINE NEW	[	х	]	
	8093	COMM AND TRACK 8093 RMS TV CAMERA SELECT SW (PORT)							
LEAD ANALYST:	W.C. LONG								
ASSESSMENT:									
CRITICAL FLIGH						CIL ITEM			
HDW/FU		I	3	С					
NASA [ 2 /2 IOA [ 3 /3	] [	] [	]	[	]	[	X	]	*
COMPARE [ N /N	] [	] [	]	[	1	[	N	]	
RECOMMENDATIONS:	(If dif	ferent fi	om NA	SA)					
. [ /	] [	] [	]	[	] (A	] ,DD	/DI	] ELE	TE)
* CIL RETENTION	RATIONALE:	(If app)	licabl	AI	DEQUATE DEOUATE	[	x	]	
INADEQUATE [ ] REMARKS: FAILURE TO SWITCH MAINTAINS ELBOW OR WRIST TVC OPERATION TO PROVIDE PARTIAL MISSION SUPPORT. MECHANICAL INTERFERENCE TO RMS STOW WAS NOT ANALYSED.									

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8094 6.0.1		NASA DATA: BASELINE NEW		
SUBSYSTEM: MDAC ID: ITEM:	8094	ACK RA SELECT SW (F	PORT)		
LEAD ANALYST:	W.C. LONG				
ASSESSMENT:					
CRITICAL: FLIGHT		UNDANCY SCREENS	<b>;</b>	CIL ITEM	
HDW/FU		В	<b>c</b>	TIEM	
NASA [ 2 /1R IOA [ 3 /2R	] [ P ]	[ P ] [ [ P ] [	P ] P ]	[ X ] * [ ]	
COMPARE [ N /N	] [ ]	[ ] [	]	[ N ]	
RECOMMENDATIONS:	(If diffe	rent from NASA)			
[ /	] [ ]	[ ] [	] (AD	[ DD/DELETE)	
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]					
REMARKS: ELECTRICAL OPEN/SHORT RESULTS IN LOSS OF RMS TVC OUTPUT RESULTING IN LOSS OF MISSION. MECHNICAL INTERFERENCE DURING RMS STOW WAS NOT ANALYSED.					

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-80947	A	NASA DATA: BASELINE NEW		
MDAC ID:	COMM AND TRA 8094 RMS TV CAMER	ACK RA SELECT SW (1	PORT)		
LEAD ANALYST:	W.C. LONG				
ASSESSMENT:	•				
		UNDANCY SCREENS	S	CIL	
FLIGH HDW/FU		В	С		
NASA [ 2 /1F IOA [ 3 /2F	[ P ]	[ P ] [ [ P ] [	P ] P ]	[ X ] * [ ]	
COMPARE [ N /N	] [ ]	[ ] [	1	[ N ]	
RECOMMENDATIONS:	(If differ	rent from NASA	)		
[ · /	] [ ]	. [. ] [	] . (AI	[ ] DD/DELETE)	
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]					
REMARKS: ELECTRICAL OPEN/SHORT RESULTS IN LOSS OF RMS TVC OUTPUT RESULTING IN LOSS OF MISSION. MECHNICAL INTERFERENCE DURING RMS STOW WAS NOT ANALYSED.					

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	COMTRK-809	94B		NASA DATA: BASELINE NEW	
MDAC ID:	COMM AND T 8094 RMS TV CAM	-			
LEAD ANALYST:	W.C. LONG				
ASSESSMENT:					
CRITICAL: FLIGHT		DUNDANC	Y SCREE	NS	CIL ITEM
HDW/FUI		1	В	C	11EM
NASA [ 2 /2 IOA [ 3 /2R	] [ ] [ P	] [	P ]	[ ] [ P ]	[ X ] * [ ]
COMPARE [ N /N	] [ N	] [ ]	N ]	[ N ]	[ N ]
RECOMMENDATIONS:	(If diff	erent f	rom NAS	A)	
[ /	1 . [	] [	] .	[ ] [A]	[ ] DD/DELETE)
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ] INADEQUATE [ ]					
REMARKS: ELECTRICAL OPEN/SHORT RESULTS IN LOSS OF RMS TVC OUTPUT RESULTING IN LOSS OF MISSION. MECHNICAL INTERFERENCE DURING RMS STOW WAS					

ASSESSMENT I ASSESSMENT I NASA FMEA #:	D: COMTR	K-8094C		NASA DATA BASELINE NEW	: [ x	]	
SUBSYSTEM: MDAC ID: ITEM:	8094	AND TRACK V CAMERA SE	PORT)				
LEAD ANALYS	: W.C.	LONG					
ASSESSMENT:							
	CALITY	REDUNDAN	ICY SCREENS	;	CIL ITEM		
	W/FUNC	A	В	С			
NASA [ 3	3 ] 3 /2R ]	[ ] [ [ P ] [	] [ P] [	<b>p</b> ]	[	] * ]	
COMPARE [	/N ]	[ N ]	N ] [	и ]	[	]	
RECOMMENDAT	ons: (If	different	from NASA)				
[	/ ]	[ ] [	] [	] (A)	[ DD/DI	] ELETE)	
* CIL RETENT	TION RATION	NALE: (If ag		ADEQUATE IADEQUATE	[ X	]	

ELECTRICAL OPEN/SHORT RESULTS IN LOSS OF RMS TVC OUTPUT RESULTING IN LOSS OF MISSION. MECHNICAL INTERFERENCE DURING RMS STOW WAS NOT ANALYSED.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8095		NASA DATA: BASELINE NEW	[ ]					
	COMM AND TRACK 8095 TV CAMERA CMD FOO			7.1 477					
LEAD ANALYST:	W.C. LONG								
ASSESSMENT:									
CRITICAL: FLIGH	ITY REDUNDANC	CY SCREENS		CIL ITEM					
HDW/FU		В	C	TIEM					
NASA [ / IOA [ 2 /1R	] [ ] [ ] [ P ]	P ] [	P ]	[ ] * [ x ]					
COMPARE [ N /N	] [ N ] [	иј	ท ]	[ N ]					
	(If different		<b>.</b> .						
[ 2 /1R	] [P] [	P ] [		[ A ] DD/DELETE)					
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ ]  INADEQUATE [ ]									
WOULD RESULT IN	SA CCTV FMEA. FAT LOSS OF TVC. UP ( OULD RESULT IN LOS	CMD PROVID	ES UNLIKE	REDUNDANCY.					

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8096	NASA DATA: BASELINE [ ] NEW [ ]
	COMM AND TRACK 8096 TV CAMERA CMD FOCUS SWITCH	
LEAD ANALYST:	W.C. LONG	
ASSESSMENT:		
CRITICAL: FLIGH		CIL ITEM
HDW/FUI		C
NASA [ / IOA [ 2 /1R	] [ ] [ ] [ ] [ ] [ ]	P ] [ ] *
COMPARE [ N /N	] [и] [и] [1	ן א ן נא
RECOMMENDATIONS:	(If different from NASA)	
[ 2 /1R	] [P] [P] [	P ] [ A ] (ADD/DELETE)
* CIL RETENTION 1		ADEQUATE [ ] ADEQUATE [ ]
REMARKS:	IN	ADEQUATE [ ]
NO COMPARABLE NAS	SA CCTV FMEA. FAILURE TO P LOSS OF TVC. UP CMD PROVID OULD RESULT IN LOSS OF CCTV	ES UNLIKE REDUNDANCY.

VEHICLE AND CREW.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8097	NASA DATA: BASELINE [ ] NEW [ ]
00000	COMM AND TRACK 8097 TV CAMERA CMD ZOOM SWITCH	
LEAD ANALYST:	W.C. LONG	
ASSESSMENT:		
CRITICALI FLIGHT		CIL ITEM
HDW/FU		C
NASA [ / IOA [ 2 /1R	] [ ] [ ] [ ] [ P ] [ P ] [	p ] [ ] *
COMPARE [ N /N	] [N] [N] [	N ] [ N ]
RECOMMENDATIONS:	(If different from NASA)	
[ 2 /1R	] [P] [P] [	P ] [ A ] (ADD/DELETE)
* CIL RETENTION 1	RATIONALE: (If applicable)	ADEQUATE [ ]
WOULD RESULT IN	SA CCTV FMEA. FAILURE TO PLOSS OF TVC. UP CMD PROVIDULD RESULT IN LOSS OF CCTV	PROVIDE THIS FUNCTION DES UNLIKE REDUNDANCY

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:		8098		NASA DATA BASELINE NEW			
	COMM AND 8098 TV CAME		ZOOM SWITC	:H			
LEAD ANALYST:	W.C. LO	NG					
ASSESSMENT:							
CRITICAL FLIGH		REDUNDA	ANCY SCREE	ns	CIL ITEM		
HDW/FU	_	A	В	C	1100		
NASA [ / IOA [ 2 /1R	] [	p ]	[ ] [ P ]	[ ] [ P ]	[ x ] *		
COMPARE [ N /N	] [	N ]	[ N ]	[ и ]	[и]		
RECOMMENDATIONS:	(If d	ifferent	t from NAS	A)			
[ 2 /1R	] [	P ]	[ P ]		[ A ] .DD/DELETE)		
* CIL RETENTION	RATIONAL	E: (If a	applicable	a)  ADEQUATE  INADEQUATE			
REMARKS: NO COMPARABLE NA WOULD RESULT IN SECOND FAILURE C VEHICLE AND CREW	LOSS OF OULD RES	TVC. U	P CMD PROV	PROVIDE TH	IS FUNCTION REDUNDANCY.		

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:			NASA DATA BASELINE NEW	
	COMM AND TRAC 8099 TV CAMERA CMI			
LEAD ANALYST:	W.C. LONG			
ASSESSMENT:				e e
CRITICALI FLIGHT	TY REDUI	NDANCY SCREE	NS	CIL ITEM
	IC A	В	<b>c</b> *****	11011
NASA [ / IOA [ 2 /1R	[	[ P]	[ ] [ P ]	[ ] * [ x ]
COMPARE [ N /N	] [ N ]	[ N ]	[и]	[ N ]
RECOMMENDATIONS:	(If differe	ent from NAS	A)	
[ 2 /1R	] [ P ]	[ P ]	[ P ] (A	[ A ] DD/DELETE)
* CIL RETENTION I	RATIONALE: (I:	f applicable		
		•	ADEQUATE INADEQUATE	
REMARKS: NO COMPARABLE NAS WOULD RESULT IN I SECOND FAILURE CO VEHICLE AND CREW	OSS OF TVC.	UP CMD PROV	IDES UNLIKE	REDUNDANCY.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	, ,			NASA DATA: BASELINE NEW					
MDAC ID:	COMM AN		oto cwimou						
ITEM:			RIS SWITCH						
LEAD ANALYST:	W.C. LO	NG							
ASSESSMENT:									
CRITICAL		REDUNDA	NCY SCREEN	s	CIL ITEM				
FLIGH HDW/FU		A	В	C	IIBM				
NASA [ / IOA [ 2 /1R	] [	P ]	[ ] [ [ P ]	P ]	[ x ] *				
COMPARE [ N /N	] [	n j	[и] [	и ј	[ и ]				
RECOMMENDATIONS:	(If d	ifferent	from NASA	)					
[ 2 /1R	] [	P ]	[P] [		[ A ] DD/DELETE)				
* CIL RETENTION	RATIONAL	E: (If a	pplicable)						
			I	ADEQUATE NADEQUATE					
INADEQUATE [ ] REMARKS: NO COMPARABLE NASA CCTV FMEA. FAILURE TO PROVIDE THIS FUNCTION WOULD RESULT IN LOSS OF TVC. UP CMD PROVIDES UNLIKE REDUNDANCY. SECOND FAILURE COULD RESULT IN LOSS OF CCTV FUNCTION AND LOSS OF VEHICLE AND CREW.									

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8	3101		NASA DATA: BASELINE NEW	
	8101		ILT SWITCH	· · · · · · · · · · · · · · · · · · ·	
LEAD ANALYST:	W.C. LON	1G			
ASSESSMENT:					
	REDUNDA	NCY SCREEN	ıs	CIL	
FLIGHT HDW/FUT		A	В	C	ITEM
NASA [ / IOA [ 2 /1R	] [	p ]	[ ] [ [ P ] [	] P ]	[ X ] <u></u>
COMPARE [ N /N	] [	N ]	[и]	N ]	[и]
RECOMMENDATIONS:	(If di	fferent	from NASA	7)	
[ 2 /1R	] [	P ]	[ P ] [	P]	[ A ] DD/DELETE)
* CIL RETENTION I	RATIONALI	E: (If a	pplicable)		
			I	ADEQUATE NADEQUATE	
REMARKS: NO COMPARABLE NAS WOULD RESULT IN I SECOND FAILURE CO VEHICLE AND CREW	LOSS OF TOULD RESU	IVC. UP	CMD PROVI	DES UNLIKE	REDUNDANCY.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-			NASA DATA BASELINE NEW	[ ]
SUBSYSTEM: MDAC ID: ITEM:	8102		TILT SWITC	CH .	
LEAD ANALYST:	W.C. LO	NG			
ASSESSMENT:					
CRITICAL FLIGH		REDUNDA	ANCY SCREE	ens	CIL
HDW/FU		A	В	С	ITEM
NASA [ / IOA [ 2 /1R	] [	p ]	[ ] [ P ]	[ ] [ P ]	[ x ] *
COMPARE [ N /N	] [	N ]	[ N ]	[и]	[ N ]
RECOMMENDATIONS:	(If d	ifferent	from NAS	SA)	
[ 2 /1R	] [	P ]	[ P ]	[ P ] (A	[ A ] DD/DELÈTE)
* CIL RETENTION	RATIONAL	E: (If a	applicable	•	
				ADEQUATE INADEQUATE	[ ]
REMARKS: NO COMPARABLE NAME OF THE NAME OF	LOSS OF	TVC. UI	CMD PROV	IDES UNLIKE	REDUNDANCY
VEHICLE AND CREW				of Toncion	MID LOOD O

NASA DATA:

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8	3103		NASA DATA BASELINE NEW	[ ]
MDAC ID:	8103	D TRACK	N SWITCH	-	
LEAD ANALYST:	W.C. LO	NG			
ASSESSMENT:					
CRITICAL: FLIGHT		REDUNDAN	CY SCREENS	5	CIL ITEM
HDW/FUI		A	В	С	± ± 44.
NASA [ / IOA [ 2 /1R	] [	P ] [	P ] [	p ]	[ x ] *
COMPARE [ N /N	] [	и ] [	и ] [	N ]	[ N ]
RECOMMENDATIONS:	(If d	ifferent	from NASA	)	
[ 2 /1R	] [	P ] [	P ] [		[ A ] DD/DELETE)
* CIL RETENTION	RATIONAL	E: (If ap		ADEQUATE NADEQUATE	
REMARKS: NO COMPARABLE NA WOULD RESULT IN SECOND FAILURE C VEHICLE AND CREW	LOSS OF OULD RES	TVC. UP	CMD PROVI	DES UNLIKE	REDUNDANCY.

ASSESSMENT DATE: 3 ASSESSMENT ID: 0 NASA FMEA #:	3/05/88 COMTRK-8104	NASA DATA: BASELINE [ ] NEW [ ]
MDAC ID:	COMM AND TRACK 8104 TV CAMERA CMD PAN SWITCH	
LEAD ANALYST: W	W.C. LONG	
ASSESSMENT:		
CRITICALIT FLIGHT HDW/FUNC		CIL ITEM C
NASA [ / ] IOA [ 2 /1R ]	] [ ] [ ] [ ] [ P ] [ P ] [	p ] [ ] *
COMPARE [ N /N ]	] [и] [и] [	и] [и]
RECOMMENDATIONS:	(If different from NASA)	
[ 2 /1R ]	] [P] [P] [	P ] [ A ] (ADD/DELETE)
		ADEQUATE [ ] ADEQUATE [ ]
WOULD RESULT IN LO	A CCTV FMEA. FAILURE TO P OSS OF TVC. UP CMD PROVID ULD RESULT IN LOSS OF CCTV	ES UNLIKE REDUNDANCY

ASSESSME ASSESSME NASA FME	NT	II		•	5/88 TRK-810	5			1	DATA: LINE NEW	[	]		
SUBSYSTEMDAC ID:	M:			8105	I AND T CAMERA			SWIT	СН					
LEAD ANA	LYS	ST	:	W.C.	LONG									
ASSESSME	NT:	:												
CRITICAL												CIL		
-	FLIGH HDW/FU			A		E	В		С		*******			
NASA IOA	[	3	/ /3	]	[	]	[	]	[ [	]		[	] *	t
COMPARE	[	N	/N	]	[	]	[	]	[	3		[	]	
RECOMMEN	DA'	ric	ons:	(1	f diff	ere	nt fr	om N	ASA)					
	[		/	]	[ •	]	[	]	[	]	(AI	[ D/D	ELEI	ľE)
* CIL RE	TEI	T.	ION	RATIO	NALE:	(If	appl	icab		ADEQU ADEQU		[	]	
REMARKS:	וגס	מל 1	e na	SA CO	יייני באדי	' א	иот	CRTT	TCAT.			•	•	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	3/05/88 COMTRK-8106	NASA DATA: BASELINE [ ] NEW [ ]									
SUBSYSTEM: MDAC ID: ITEM:	COMM AND TRACK 8106 TV CAMERA PANTILT SWITCH										
LEAD ANALYST:	W.C. LONG										
ASSESSMENT:											
CRITICAL FLIGH		CIL ITEM									
HDW/FU	NC A B	С									
NASA [ / IOA [ 2 /1R	] [ ] [ ] [ ] [ P ] [	P ] [ ] *									
COMPARE [ N /N	] [и] [и] [	N ] [ ]									
RECOMMENDATIONS: (If different from NASA)											
[ /	] [.] [ ] [	] [ ] (ADD/DELETE)									
* CIL RETENTION RATIONALE: (If applicable)											
REMARKS:		ADEQUATE [ ] ADEQUATE [ ]									
NO COMPARABLE NASA CCTV FMEA. FAILURE TO PROVIDE THIS FUNCTION WOULD RESULT IN LOSS OF TVC. UP CMD PROVIDES UNLIKE REDUNDANCY.											

SECOND FAILURE COULD RESULT IN LOSS OF CCTV FUNCTION AND LOSS OF

VEHICLE AND CREW.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:					3/05/88 COMTRK-8107						NASA <u>DATA:</u> BASELINE [ ] NEW [ ]				
SUBSYSTEM MDAC ID:	M:			81	MM AND TRACK .07 CAMERA ALC CMD SWITCH (PEAK)										
LEAD ANA	LYS	ST		W.	c. I	LONG									
ASSESSME	NT	:													
CRITICAL												CIL ITEM			
FLIGHT HDW/FUI							В			<b>C</b>		TILM			
NASA IOA	[	3	/3	]		[	]	[	]	[	]	[ [	] <b>*</b>		
COMPARE	[	N	/N	]		[	]	[	]	[	]	[	]		
RECOMMEN	DA'	TI(	ons:		(If	dif:	fere	nt fr	om N	IASA)					
	[		1.	]		[	]	[	]	[	]	[ (ADD)	] /DELETE)		
* CIL RE		NT	ION	RAI	CION	ALE:	(If	appl	icak.		ADEQUAT	_	]		
REMARKS:	RI	ВL	E NA	SA	CCT	V FM	EA.	NOT	CRIT	TICAL	l•				